

1. PROJECT CODE SA-AMS		2. JPIC CODE AMS		AMS-02 TASK SHEET (ATS)			
3. T Y P E	A	CONFIGURATION CHANGE		<input checked="" type="checkbox"/>	4. ATS NO. ATS 090127-1-R0		5. PAGE 1 OF 116
		PERMANENT	<input type="checkbox"/>	TEMPORARY	<input checked="" type="checkbox"/>	6. MOD SHEET(S) NUMBER(S)	
	B	NONCONFIGURATION CHANGE		<input type="checkbox"/>			
10. PART NAME AMS02				11. Sub Detector Name TRACKER TTCS S BOX		12. SERIAL/LOT NO. NA	
14. APPLICABLE DOCUMENTS							
18. ATS TITLE TTCB Secondary FM installation							
20. OPER SEQ. NO.		21. OPERATIONS (Print, Type, or Write Legibly)				VERIFICATION	
						22. TECH	23. QA/DV
		<p align="center"><u>NOTE CAUTION WARNING</u></p> <p align="center">THIS ATS COVERS ALL THE INTEGRATION STEPS NEEDED FOR THE TTCB-FM SECONDARY INSTALLATION</p> <p align="center">The purpose of this ATS is to specify the TTCB installation of the TTCS boxes, that will be performed at AIDC Taiwan.</p> <p align="center">The Project Engineer: Johannes van Es (TTCS) has the option to reorder steps on site as required.</p> <p align="center">HANDLING AND HARDWARE INSTALLATION</p> <p align="center">Each operation on FM Hardware shall be done wearing gloves and in according to the following instructions</p> <p align="center">All the integration activities shall be done by qualified personnel.</p> <p align="center">The TTCS Project Engineer has the authority to work the steps in this ATS out of order.</p>					
24. ORIGINATOR J. van Es				DATE	25. FINAL ACCEPTANCE STAMP AND DATE		
APPROVALS (Printed or Typed and Signed)							
26. PROJECT ENGINEER J. van Es				DATE	27. QUALITY ENGINEER		DATE
28.					29.		
30.					31.		

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CONTINUATION PAGE

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SEQ. NO.21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

22. TECH

23. QA/DV

SCOPE

The purpose of the present document is to provide information and guidelines for the installation of the TTCB FM2 components on its support and the installation into the TTCB. The integration sequence are described in

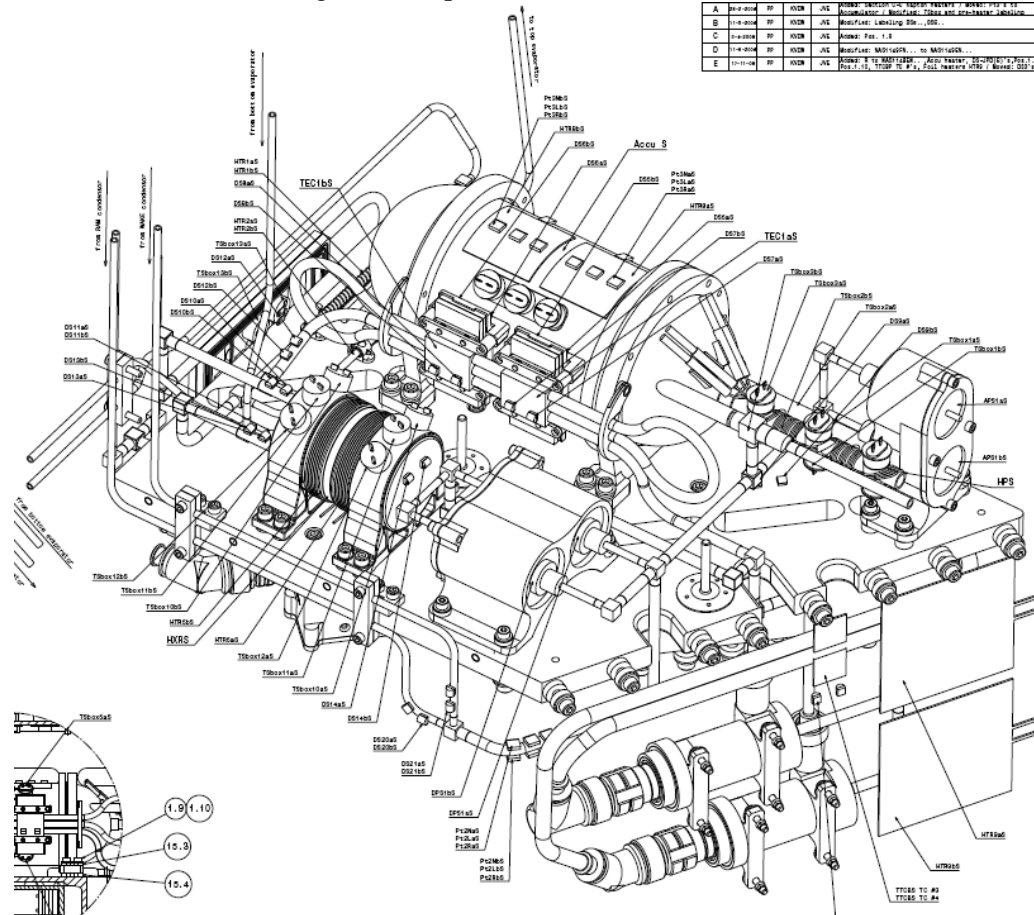


Figure 1

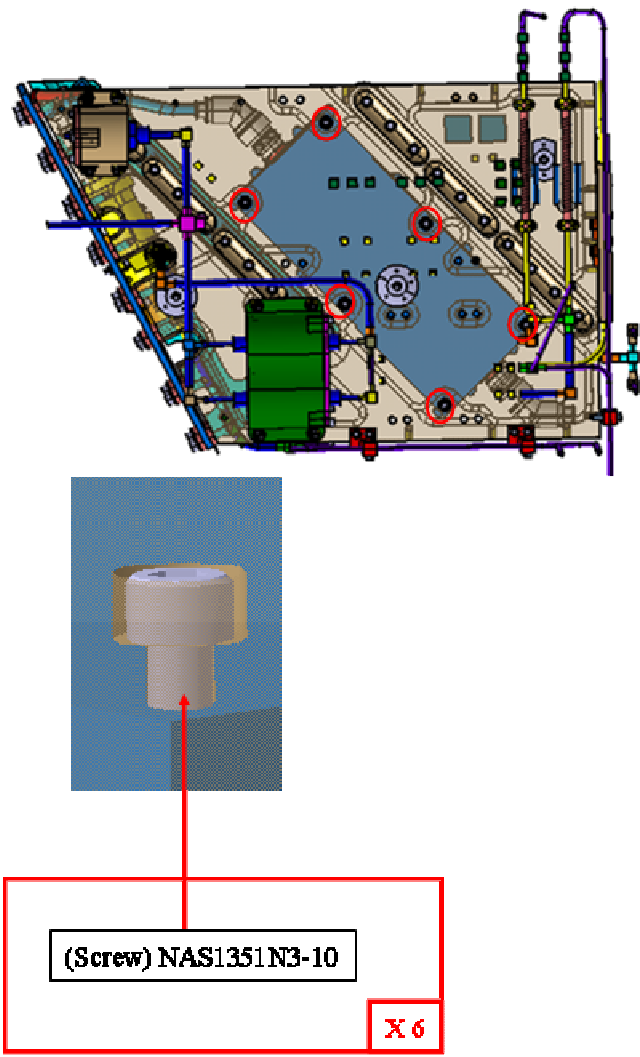
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	<p><u>APPLICABLE DOCUMENTS</u></p> <p>The following documents in the latest applicable issue form a part of this plan to the extent specified herein:</p> <table><thead><tr><th>AD</th><th>Document ID</th><th>Issue/Rev</th><th>Title</th></tr></thead><tbody><tr><td>1</td><td>AMSTR-NLR-PR-021</td><td>6.4</td><td>TTCS Box Welding Procedure</td></tr><tr><td>2</td><td>ET5998-08-01</td><td>E/</td><td>ASSY TTCB P FM</td></tr><tr><td>3</td><td>ET6029-05-031</td><td>F/</td><td>ASSY HX FM S</td></tr><tr><td>4</td><td>ET6029-05-019</td><td>H/</td><td>HX FM P CLIP AND SUPPORT</td></tr><tr><td>5</td><td>ET5998-08-10</td><td>D/</td><td>TTCB FM Assembly base</td></tr><tr><td>6</td><td>AMSTR-NLR-PR-062</td><td>1.0</td><td>TTCB-S Box welding procedure</td></tr><tr><td></td><td></td><td></td><td></td></tr></tbody></table> <p><u>STANDARD AND SPECIAL TOOLS</u></p> <p>For the hardware installation a standard tool shall be used. Where the use of standard tooling is not possible, special tool may be employed. Each special tool has to be identified with its Drawing Number marked, in indelible way, on the same tool All the tools have to be clean and free from dust and grease. For the present installation only standard tools are needed</p> <p><u>RUNNING TORQUE MEASUREMENT</u></p> <p>In the present integration activity we have to consider several types of locking as coupling by inserts and few by locking features on the bolts. This value is an output from Specification MIL-I-45914A see below table.</p>			AD	Document ID	Issue/Rev	Title	1	AMSTR-NLR-PR-021	6.4	TTCS Box Welding Procedure	2	ET5998-08-01	E/	ASSY TTCB P FM	3	ET6029-05-031	F/	ASSY HX FM S	4	ET6029-05-019	H/	HX FM P CLIP AND SUPPORT	5	ET5998-08-10	D/	TTCB FM Assembly base	6	AMSTR-NLR-PR-062	1.0	TTCB-S Box welding procedure						
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	<p style="text-align: center;">MIL-I-45914A</p> <p style="text-align: center;"><u>TABLE I. Internal thread self-locking torque (inch-pounds).</u></p> <table><thead><tr><th>Insert Internal Thread Fine or Coarse</th><th>Maximum Locking Torque</th><th>Minimum Breakaway Torque</th></tr></thead><tbody><tr><td>.086</td><td>2.5</td><td>.2</td></tr><tr><td>.112</td><td>5</td><td>.5</td></tr><tr><td>.138</td><td>10</td><td>1.0</td></tr><tr><td>.164</td><td>15</td><td>1.5</td></tr><tr><td>.190</td><td>18</td><td>2.0</td></tr><tr><td>.250</td><td>30</td><td>3.5</td></tr><tr><td>.3125</td><td>60</td><td>6.5</td></tr><tr><td>.375</td><td>80</td><td>9.5</td></tr><tr><td>.4375</td><td>100</td><td>14.0</td></tr><tr><td>.500</td><td>150</td><td>18.0</td></tr><tr><td>.5625</td><td>200</td><td>24.0</td></tr><tr><td>.625</td><td>300</td><td>32.0</td></tr><tr><td>.750</td><td>400</td><td>50.0</td></tr><tr><td>.875</td><td>600</td><td>70.0</td></tr><tr><td>1.000</td><td>800</td><td>90.0</td></tr></tbody></table> <p>Table 1: Running torque values according to MIL-I-45914A</p> <p>Since it is a continuous torque it is necessary to measure it with an analogical torque wrench, obtaining the maximum torque applied during this operation. The Locking Torque value has to be written in the relative box in the Integration Procedure Table and added to the Seating Torque required in the structural analysis, (and reported in the engineering drawings)</p> <p><u>FINAL INSTALLATION TORQUE MEASUREMENT</u></p> <p>Final Torque to be applied to each screw is the result of the sum of the Locking Torque (measured) and the Seating Torque prescribed from the structural analysis (and reported also on the engineering drawing). The Seating torques to be applied for each screws are listed in this ATS The entire torque shall be applied using calibrated torque wrench</p> <p>TORQUE (T)= SEATING TORQUE (ST) +LOCKING TORQUE (RT)</p> <ul style="list-style-type: none">• SEATING TORQUE (from structural analysis)• LOCKING (= RUNNING) TORQUE (measured)					Insert Internal Thread Fine or Coarse	Maximum Locking Torque	Minimum Breakaway Torque	.086	2.5	.2	.112	5	.5	.138	10	1.0	.164	15	1.5	.190	18	2.0	.250	30	3.5	.3125	60	6.5	.375	80	9.5	.4375	100	14.0	.500	150	18.0	.5625	200	24.0	.625	300	32.0	.750	400	50.0	.875	600	70.0	1.000	800	90.0		
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				22. TECH	23. QA/DV																
	<p><u>LUBRICATION</u></p> <p>All these fasteners shall be installed in <u>LUBRICATED</u> condition (according to the structural analysis)</p> <p>The below Step by Step procedure, have to be followed for all the fittings to be used for the parts installation.</p> <table><tr><th>STEP</th><th>OPERATION</th></tr><tr><td>1</td><td>Clean screws and washers in an Isopropyl Alcohol bath</td></tr><tr><td>2</td><td>Let the screws and washers dry on a clean towel</td></tr><tr><td>3</td><td>Perform a screws and washers visual Inspection</td></tr><tr><td>4</td><td>Install the HX-support assembly with the washers to the TTCB-P base plate</td></tr><tr><td>5</td><td>Add Koropron primer if indicated</td></tr><tr><td>5</td><td>Measure the Locking Torque and register the value in the <u>Integration Procedure Tables</u> The <u>Integration Procedure Tables</u> are part of the present document</td></tr><tr><td>6</td><td>Torque the bolts to the final torque values</td></tr></table> <p>1.1 WARNING: for TTCB installation reference drawings are:</p> <p>ET5998-08-DR-001-E-KW-ASSEMBLY TTCB FM.pdf</p> <p>ET5998-08-DR-002-D-KW-ASSY COVER.pdf</p> <p>ET5998-08-DR-003-C-KW-ASSY PLATES.pdf</p> <p>ET5998-08-DR-004-E-KW-ASSY TUBING.pdf</p> <p>ET5998-08-DR-005-E-KW-ASSY APS.pdf</p> <p>ET5998-08-DR-006-E-KW-ASSY DPS.pdf</p> <p>ET5998-08-DR-010-D-KW-ASSY BASE.pdf</p> <p>ET5998-08-DR-011-C-KW-SIDE PLATE.pdf</p> <p>ET5998-08-DR-012-A-KW-PP BOX.pdf</p> <p>ET5998-08-DR-013-C-KW-CONNECTOR PLATE.pdf</p> <p>ET5998-08-DR-014-F-KW-APS + DSP SUPPORT.pdf</p> <p>ET5998-08-DR-015-0-KW-THERMAL WASHERS.pdf</p> <p>ET5998-08-DR-016-A-KW-BRACKET PP FRONT.pdf</p> <p>ET5998-08-DR-017-A-KW-BRACKET PP BACK.pdf</p>			STEP	OPERATION	1	Clean screws and washers in an Isopropyl Alcohol bath	2	Let the screws and washers dry on a clean towel	3	Perform a screws and washers visual Inspection	4	Install the HX-support assembly with the washers to the TTCB-P base plate	5	Add Koropron primer if indicated	5	Measure the Locking Torque and register the value in the <u>Integration Procedure Tables</u> The <u>Integration Procedure Tables</u> are part of the present document	6	Torque the bolts to the final torque values		
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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0	
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	ET5998-08-DR-018-B-KW-PIPE BRACKET.pdf ET5998-08-DR-019-E-KW-TUBING.pdf ET5998-08-DR-020-D-KW-AUXILIARY TOOL.pdf ET5998-08-DR-021-C-KW-ANGLED PROFILE.pdf ET5998-08-DR-022-C-KW-SPECIAL WELD FITTINGS.pdf ET5998-08-DR-023-A-KW-INTEGRATION START UP RADIATOR.pdf ET5998-12-DR-001-A-KW-ASSY COLD ORBIT HEATER.pdf ET5998-012-DR-004-C-KW-PRE HEATER.pdf Verify before use the availability of the approved drawing revision			

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0														
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20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION														
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Open this ATS 2. INSTALLATION OF PUMP CONTROLLER ONTO THE TTCB BASE PLATE 2.1 Prepare the TTCS PUMP CONTROLLER for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel 2.2 Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel 2.3 Perform a visual inspection of the base plate; check the cleanliness of all the inserts. If necessary clean them with Isopropyl Alcohol 2.4 Weight all the hardware to be installed, including fasteners. Record the weight <table><thead><tr><th>ITEM</th><th>WEIGHT</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table> SCALE 2.5 PN _____ M# _____ Cal Date_____	ITEM	WEIGHT																
	ITEM	WEIGHT																

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
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		22. TECH	23. QA/DV
2.6	WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision		
2.6.1	Check the bill of material in the assembly drawing.		
2.6.2	Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component. Koropron primer - PN _____ Lot# _____ Exp. Date _____		
2.6.3	Install the indicated component on the TTCB base plate as shown in the figure below.  <p>Figure 4: Installation of PUMP CONTROLLER to base plate</p>		

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23. QA/DV

2.6.4

Apply a thin layer of **Grease, Braycote 601EF (C1)**, to the threads of each bolt prior the installation (as reported on the assembly drawings).

Braycote Grease - PN _____ Lot# _____ Exp. Date _____

2.7

Install the fasteners as per figure 4 and record fasteners lot number (write by hand)

Bolt/washer/nut and number	NAS number	LOT
----------------------------	------------	-----

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

2.8

Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table.

Dash Number	Torque (in*lb f)	
	Max	Min
Screw NAS1351N3-10	42.237	35.901

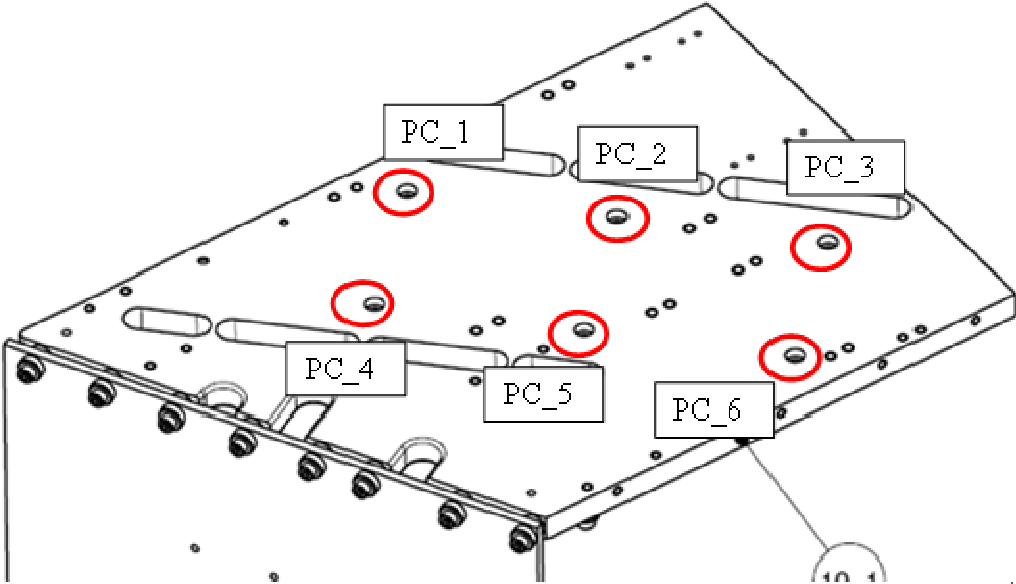
2.9

Check this value with the table at the end of this ATS.

Locking torque shall be in between **2– 18 inch*lb (size 0.190)**.

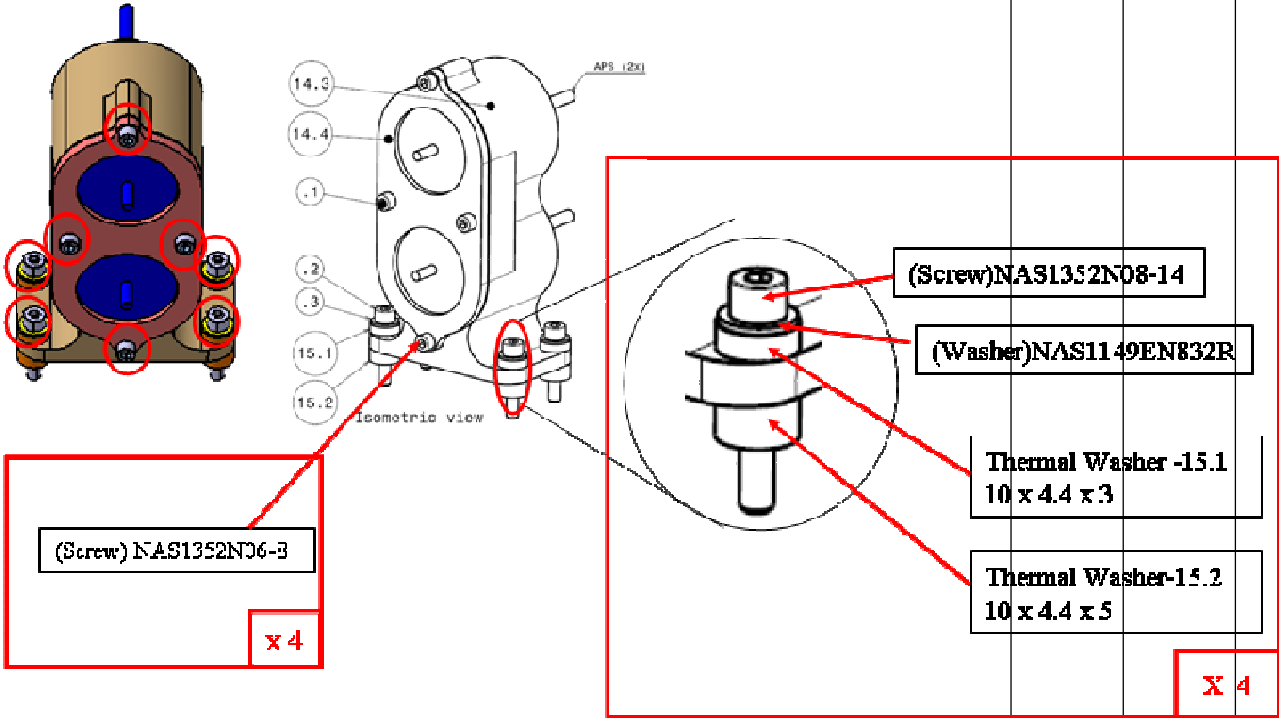
2.10

Check this value with Table 1 at the start of this ATS.
Final torque shall be the seating torque ABOVE LOCKING TORQUE.
5% precision on torque.

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	Torque Wrench- Locking Torque (locking is the same as running torque)		
	PN _____ M# _____ Cal Due Date _____		
	Torque Wrench- Final Torque		
	PN _____ M# _____ Cal Due Date _____		
	Bolt indication (see figure above)		
	Locking Torque	Final Torque	
	_____	_____	
	_____	_____	
	_____	_____	
	_____	_____	
	_____	_____	
	_____	_____	
	_____	_____	
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	_____	_____	

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2.11	Bolt indication (see figure above) Locking Torque Final Torque				
	<div></div> <div></div> <div></div> <div></div>				
	End of online operation Pump Controller box				

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		22. TECH	23. QA/DV																
3.	INSTALLATION OF APS ONTO THE TTCB BASE PLATE																		
3.1	Prepare the APS for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																		
3.2	Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																		
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3.4	Weight all the hardware to be installed, including fasteners. Record the weight <table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>	ITEM	WEIGHT																
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3.5	SCALE PN _____ M# _____ Cal Date_____																		
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3.6.1	Check the bill of material in the assembly drawing.		
3.6.2	<div>Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component.</div> <div>Koropron primer - PN _____ Lot# _____ Exp. Date _____</div>		
3.6.3	<div>Install the indicated component on the TTCB base plate as shown in the figure below.</div> <div></div>		
	<div>Figure 4: Installation of APS to base plate</div>		
3.6.4	<div>Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).</div> <div>Braycote Grease - PN _____ Lot# _____ Exp. Date _____</div>		

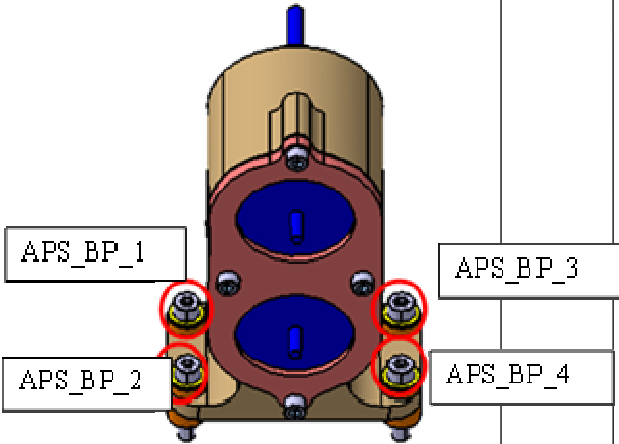
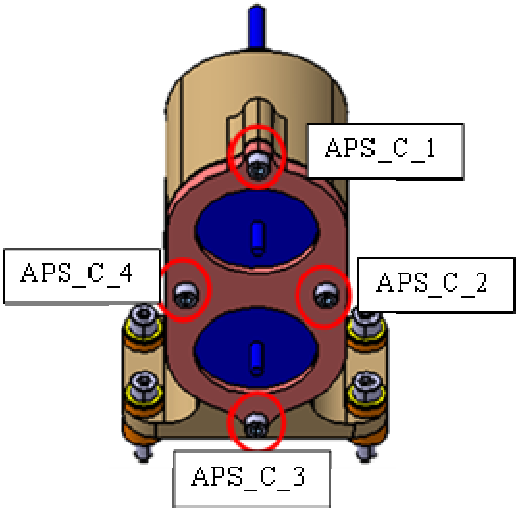
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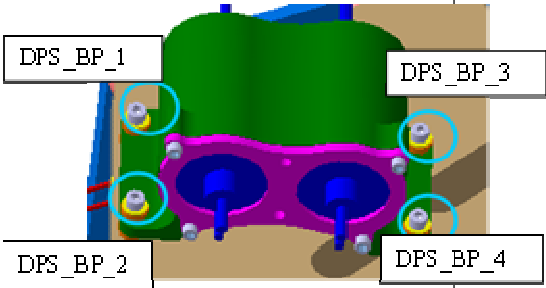
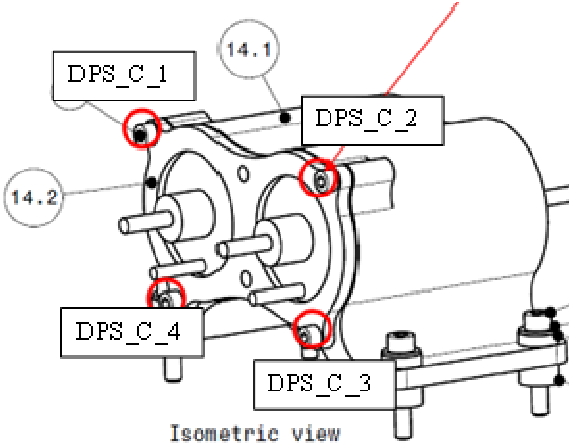
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																																		
		22. TECH	23. QA/DV																																	
3.7	<p>Install the fasteners as per figure 4 and record fasteners lot number (write by hand)</p> <table><thead><tr><th>Bolt/washer/nut and number</th><th>NAS number</th><th>LOT</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>LOT# _____</td></tr><tr><td>_____</td><td>_____</td><td>LOT# _____</td></tr><tr><td>_____</td><td>_____</td><td>LOT# _____</td></tr><tr><td>_____</td><td>_____</td><td>LOT# _____</td></tr><tr><td>_____</td><td>_____</td><td>LOT# _____</td></tr><tr><td>_____</td><td>_____</td><td>LOT# _____</td></tr><tr><td>_____</td><td>_____</td><td>LOT# _____</td></tr><tr><td>_____</td><td>_____</td><td>LOT# _____</td></tr><tr><td>_____</td><td>_____</td><td>LOT# _____</td></tr><tr><td>_____</td><td>_____</td><td>LOT# _____</td></tr></tbody></table>	Bolt/washer/nut and number	NAS number	LOT	_____	_____	LOT# _____	_____	_____	LOT# _____	_____	_____	LOT# _____	_____	_____	LOT# _____	_____	_____	LOT# _____	_____	_____	LOT# _____	_____	_____	LOT# _____	_____	_____	LOT# _____	_____	_____	LOT# _____	_____	_____	LOT# _____		
Bolt/washer/nut and number	NAS number	LOT																																		
_____	_____	LOT# _____																																		
_____	_____	LOT# _____																																		
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_____	_____	LOT# _____																																		
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3.8	<p>Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table.</p> <table><thead><tr><th rowspan="2">Dash Number</th><th colspan="2">Torque (in*lbf)</th></tr><tr><th>Max</th><th>Min</th></tr></thead><tbody><tr><td>Screw NAS1352N06-8</td><td>13.861</td><td>11.782</td></tr><tr><td>Screw NAS1352N08-14</td><td>24.944</td><td>21.203</td></tr></tbody></table>	Dash Number	Torque (in*lbf)		Max	Min	Screw NAS1352N06-8	13.861	11.782	Screw NAS1352N08-14	24.944	21.203																								
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3.9	<p>Check this value with the table at the end of this ATS.</p> <p>Locking torque shall be in 1.0 -10 inch*lbf (size 0.138) for NAS1352N06-8 Locking torque shall be in 1.5 -15 inch*lbf (size 0.164) for NAS1352N08-14</p>																																			
3.10	<p>Check this value with Table 1 at the start of this ATS.</p> <p>Final torque shall be the seating torque ABOVE LOCKING TORQUE. 5% precision on torque.</p>																																			

		5. Page 15 of 116																															
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																														
		6. MOD NO.																															
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																															
		22. TECH	23. QA/DV																														
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Bolt indication (see figure above)	Locking Torque	Final Torque																															
_____	_____	_____																															
_____	_____	_____																															
_____	_____	_____																															
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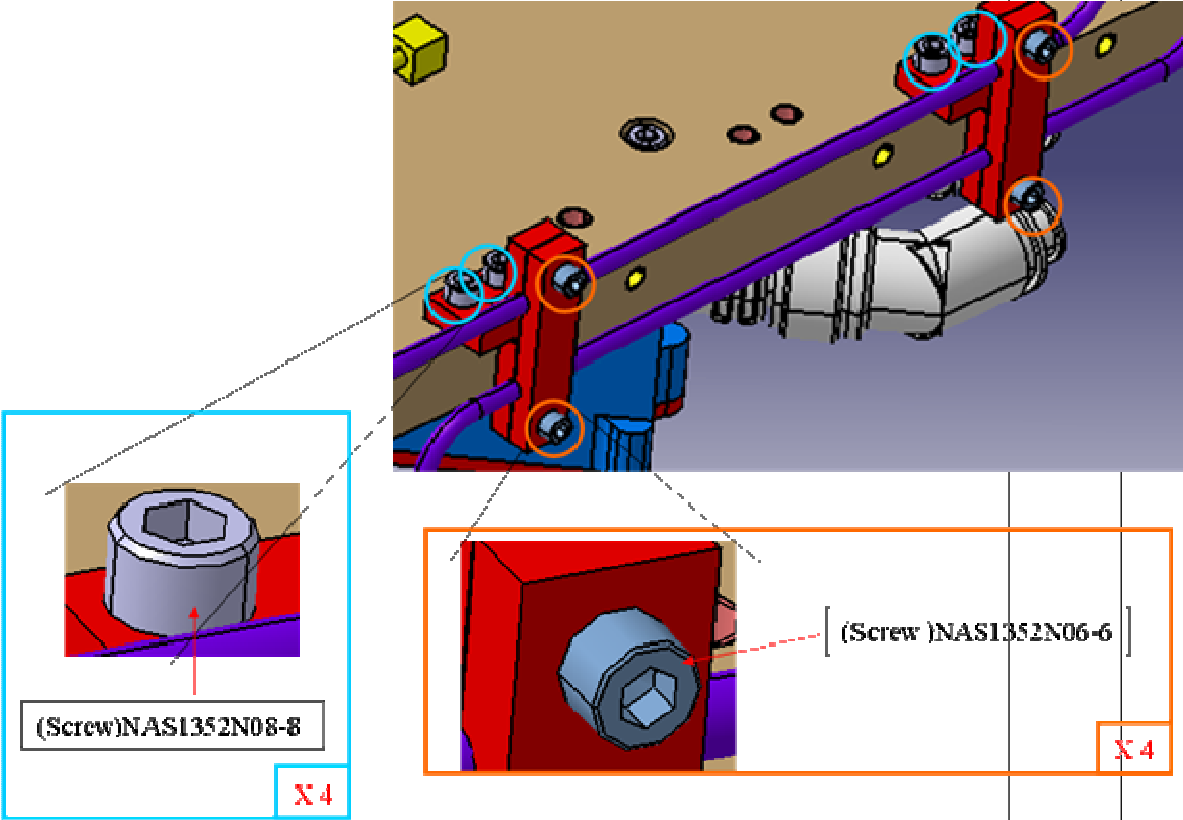
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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																
		6. MOD NO.																	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																	
		22. TECH	23. QA/DV																
4.	INSTALLATION OF DPS ONTO THE TTCB BASE PLATE																		
4.1	Prepare the DPS for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																		
4.2	Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																		
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4.4	Weight all the hardware to be installed, including fasteners. Record the weight <table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>	ITEM	WEIGHT																
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4.5	SCALE PN _____ M# _____ Cal Date_____																		
4.6	WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision																		

		5. Page 17 of 116	
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
4.6.1	Check the bill of material in the assembly drawing.		
4.6.2	<div>Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component.</div> <div>Koropron primer - PN _____ Lot# _____ Exp. Date _____</div>		
4.6.3	<div>Install the indicated component on the TTCB base plate as shown in the figure below.</div> <div><div>(Screw) NAS1149EN832R</div><div>(Washer) NAS1149EN832R</div><div>Thermal Washer-15.1 10 x 4.4 x 3</div><div>Thermal Washer-15.2 10 x 4.4 x 5</div><div>(Screw) NAS1352N06-8 X 4</div><div>Isometric view</div></div> <div>Figure 4: Installation of DPS to base plate</div>		
4.6.4	<div>Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).</div> <div>Braycote Grease - PN _____ Lot# _____ Exp. Date _____</div>		

		5. Page 18 of 116													
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0												
		6. MOD NO.													
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)		VERIFICATION												
			22. TECH	23. QA/DV											
4.7	Install the fasteners as per figure 4 and record fasteners lot number (write by hand) Bolt/washer/nut and number NAS number LOT _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____														
4.8	Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table. <table border="1"><thead><tr><th rowspan="2">Dash Number</th><th colspan="2">Torque (in*lbF)</th></tr><tr><th>Max</th><th>Min</th></tr></thead><tbody><tr><td>Screw NAS1352N06-8</td><td>13.861</td><td>11.782</td></tr><tr><td>Screw NAS1352N08-14</td><td>24.944</td><td>21.203</td></tr></tbody></table>		Dash Number	Torque (in*lbF)		Max	Min	Screw NAS1352N06-8	13.861	11.782	Screw NAS1352N08-14	24.944	21.203		
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		5. Page 19 of 116																															
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																														
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20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)		VERIFICATION																														
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	<div></div> <p>Torque Wrench- Locking Torque (locking is the same as running torque)</p> <p>PN _____ M# _____ Cal Due Date_____</p> <p>Torque Wrench- Final Torque</p> <p>PN _____ M# _____ Cal Due Date_____</p> <table><thead><tr><th>Bolt indication (see figure above)</th><th>Locking Torque</th><th>Final Torque</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table>		Bolt indication (see figure above)	Locking Torque	Final Torque	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	
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_____	_____	_____																															
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_____	_____	_____																															
_____	_____	_____																															
4.11	End of online operation DPS to base plate																																

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																		
		6. MOD NO.																			
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION																	
				22. TECH	23. QA/DV																
5.	INSTALLATION OF PIPE BRACKET TO TTCB BASE PLATE																				
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5.2	Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																				
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ITEM	WEIGHT																				
	SCALE																				
5.5	PN _____ M# _____ Cal Date_____																				
5.6	WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision																				
5.6.1	Check the bill of material in the assembly drawing.																				

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
5.6.2	<p>Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component.</p> <p>Koropron primer - PN _____ Lot# _____ Exp. Date _____</p>		
5.6.3	<p>Install the indicated component on the TTCB base plate as shown in the figure below.</p> <div></div>		
5.6.4	<p>Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).</p> <p>Braycote Grease - PN _____ Lot# _____ Exp. Date _____</p>		

AMS-02 TASK SHEET (ATS)
CONTINUATION PAGE

4. ATS NO.

ATS 090127-1-R0

6. MOD NO.

20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																																		
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AMS-02 TASK SHEET (ATS)
 CONTINUATION PAGE

4. ATS NO.

6. MOD NO.

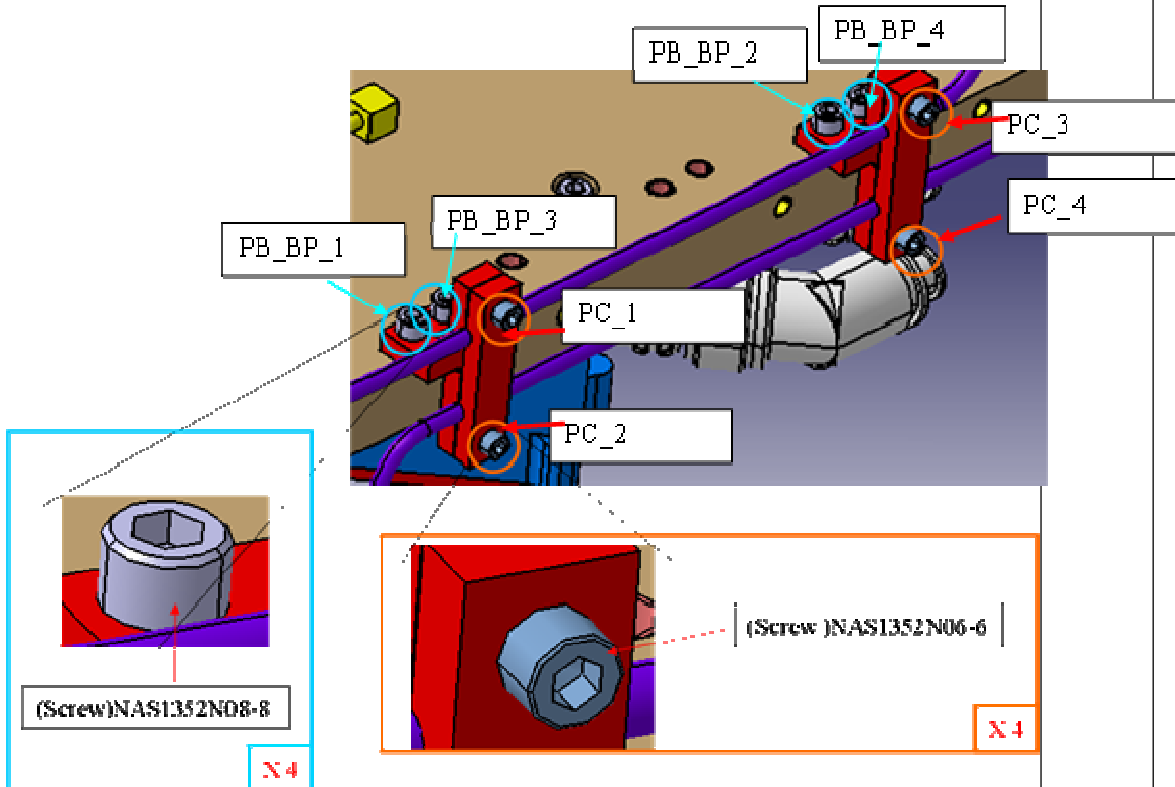
20. OPER
 SEQ. NO.

21. OPERATIONS
 (Print, Type, or Write Legibly)

VERIFICATION

22. TECH

23. QA/DV



Torque Wrench- Locking Torque (locking is the same as running torque)

PN _____ M# _____ Cal Due Date _____

Torque Wrench- Final Torque

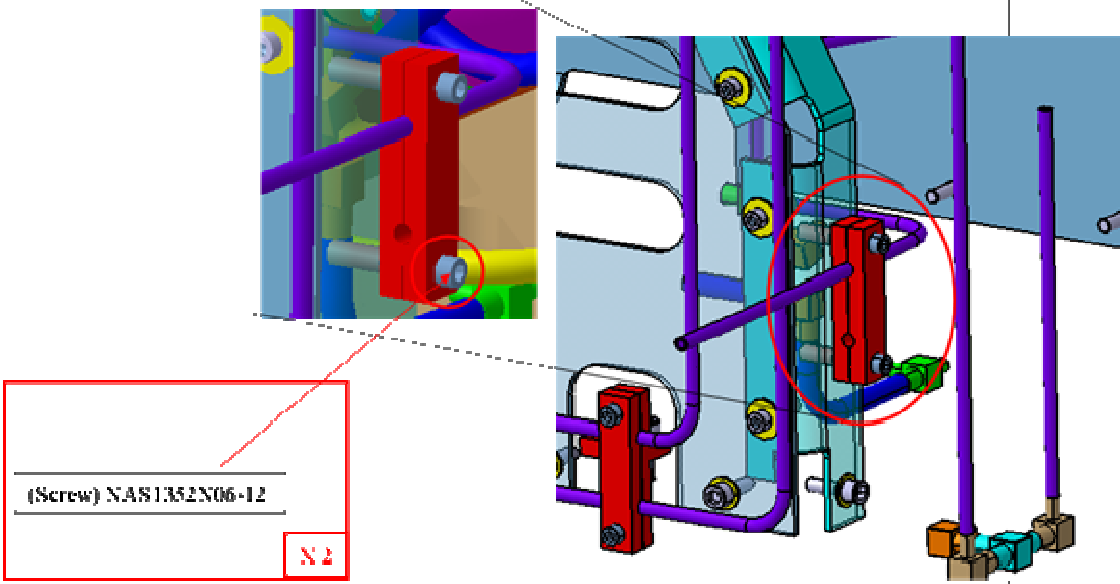
PN _____ M# _____ Cal Due Date _____

Bolt indication (see figure above) Locking Torque Final Torque

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0	
			6. MOD NO.		
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION	
				22. TECH	23. QA/DV
5.11	Bolt indication (see figure above)	Locking Torque	Final Torque		
	_____	_____	_____		
	_____	_____	_____		
	_____	_____	_____		
	_____	_____	_____		
	_____	_____	_____		
	_____	_____	_____		
	End of online operation PIPE BRACKET to base plate				

		5. Page 25 of 116																	
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																
		6. MOD NO.																	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																	
		22. TECH	23. QA/DV																
6.	INSTALLATION OF PIPE BRACKET TO TTCB COVER																		
6.1	Prepare the PIPE BRACKET for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																		
6.2	Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																		
6.3	Perform a visual inspection of the COVER; check the cleanliness of all the RIVNUTS. If necessary clean them with Isopropyl Alcohol																		
6.4	Weight all the hardware to be installed, including fasteners. Record the weight																		
	<table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>	ITEM	WEIGHT																
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	SCALE																		
6.5	PN _____ M# _____ Cal Date_____																		
6.6	WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision																		

		5. Page 26 of 116	
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
6.6.1	Check the bill of material in the assembly drawing.		
6.6.2	<div>Only when indicated in drawing</div> apply a thin layer of Koropron primer in between washers and base plate and or component. Koropron primer - PN _____ Lot# _____ Exp. Date _____		
6.6.3	Install the indicated component on the TTCB base plate as shown in the figure below. <div></div> <i>Figure 4: Installation of PIPE BRACKETS to TTCB COVER</i>		
6.6.4	Apply a thin layer of <div>Grease, Braycote 601EF (C1)</div> , to the threads of each bolt prior the installation (as reported on the assembly drawings). Braycote Grease - PN _____ Lot# _____ Exp. Date _____		

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4. ATS NO.

ATS 090127-1-R0

6. MOD NO.

20. OPER
SEQ. NO.

21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

22. TECH

23. QA/DV

6.7

Install the fasteners as per figure 4 and record fasteners lot number (write by hand)

Bolt/washer/nut and number

NAS number

LOT

LOT#

LOT#

LOT#

LOT#

LOT#

LOT#

LOT#

LOT#

LOT#

6.8

Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table.

Dash Number	Torque (in*lb)	
	Max	Min
Screw NAS1352N06-12	13.861	11.782

6.9

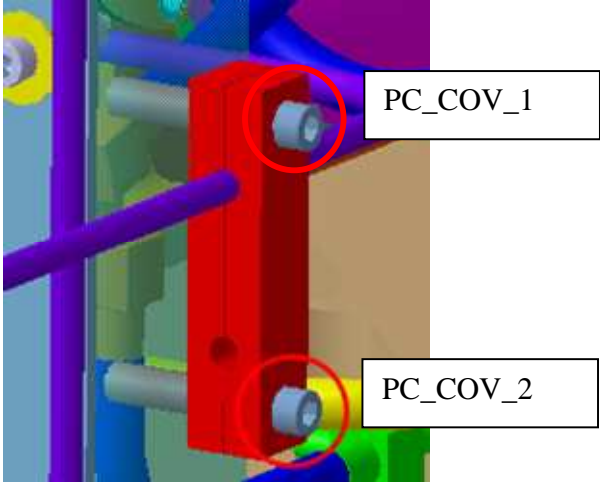
Check this value with the table at the end of this ATS.

Locking torque shall be in **1.0-10 inch*lbf (size 0.138)**

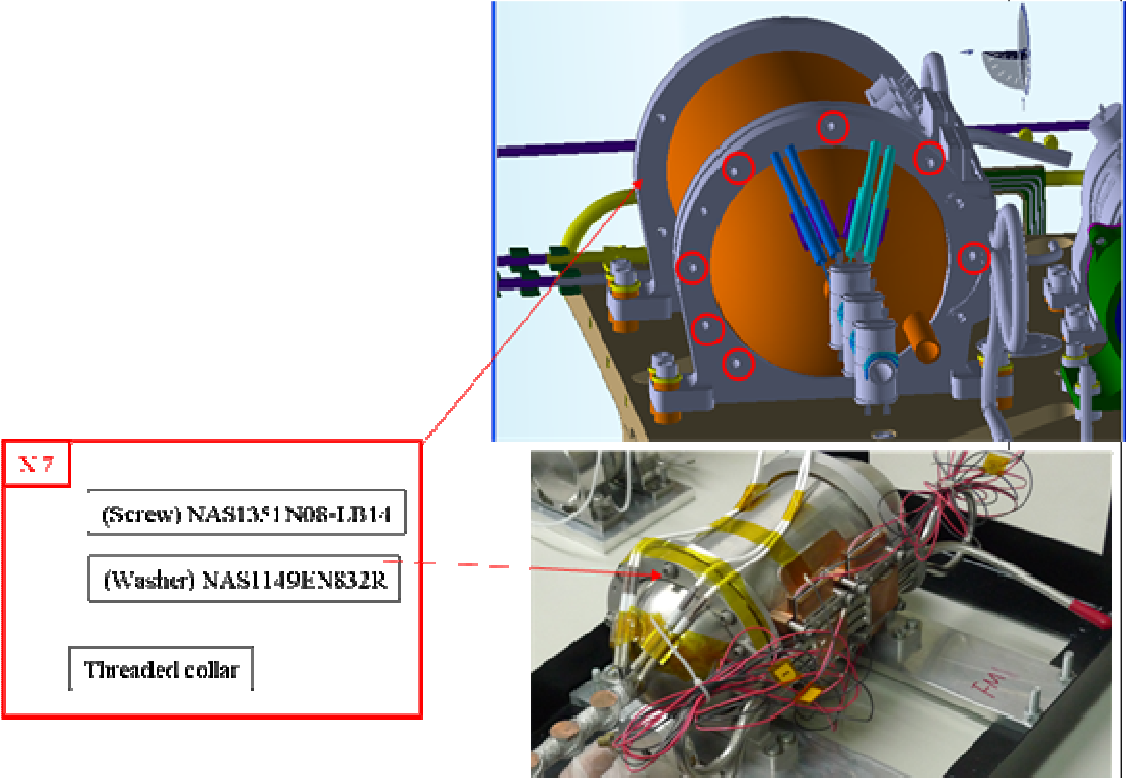
6.10

Check this value with Table 1 at the start of this ATS.

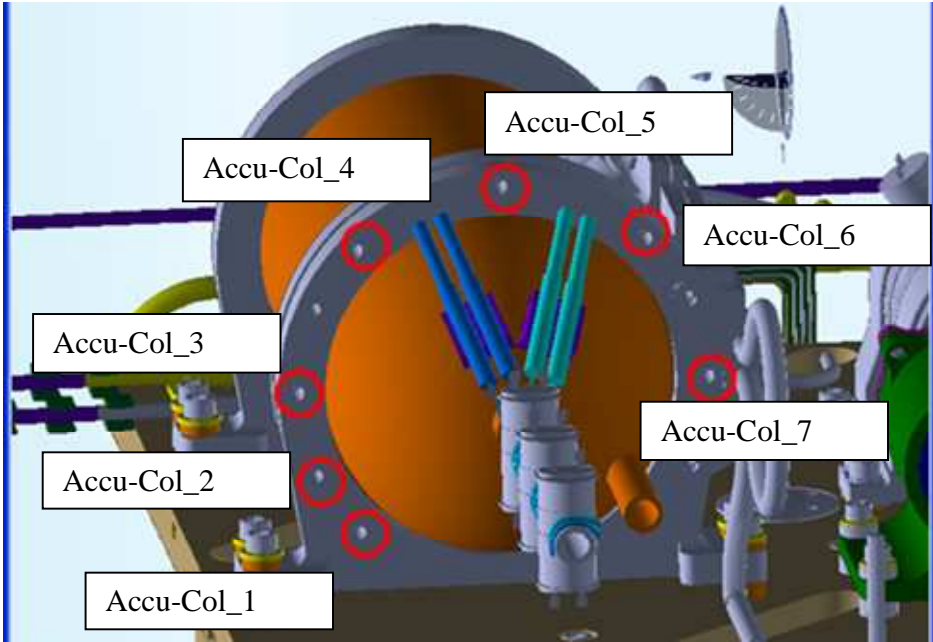
Final torque shall be the seating torque ABOVE LOCKING TORQUE.
5% precision on torque.

		5. Page 28 of 116																			
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																		
		6. MOD NO.																			
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																			
		22. TECH	23. QA/DV																		
	<div></div> <p>Torque Wrench- Locking Torque (locking is the same as running torque)</p> <p>PN _____ M# _____ Cal Due Date_____</p> <p>Torque Wrench- Final Torque</p> <p>PN _____ M# _____ Cal Due Date_____</p> <table><thead><tr><th>Bolt indication (see figure above)</th><th>Locking Torque</th><th>Final Torque</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table> <p>6.11 End of online operation PIPE BRACKET to COVER</p>	Bolt indication (see figure above)	Locking Torque	Final Torque	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____		
Bolt indication (see figure above)	Locking Torque	Final Torque																			
_____	_____	_____																			
_____	_____	_____																			
_____	_____	_____																			
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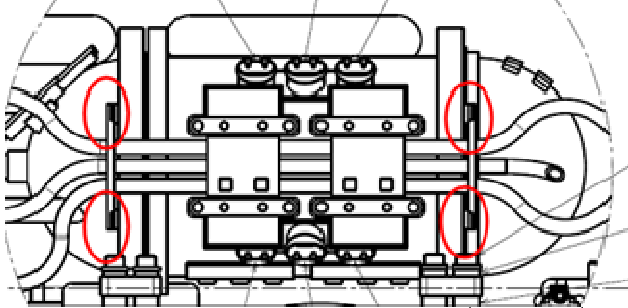
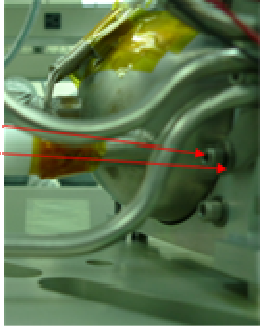
5. Page 29 of 116																					
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0																	
			6. MOD NO.																		
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION																	
				22. TECH	23. QA/DV																
7.	INSTALLATION OF ACCU BRACKET TO ACCU COLLAR																				
7.1	Prepare the ACCU BRACKET for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																				
7.2	Prepare screws and washers to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																				
7.3	Perform a visual inspection of the COLLAR; check the cleanliness of all the THREADED HOLES. If necessary clean them with Isopropyl Alcohol																				
7.4	Weight all the hardware to be installed, including fasteners. Record the weight																				
	<table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>			ITEM	WEIGHT																
ITEM	WEIGHT																				
	SCALE																				
7.5	PN _____ M# _____ Cal Date_____																				
7.6	WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision																				

		5. Page 30 of 116	
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
7.6.1	Check the bill of material in the assembly drawing.		
7.6.2	<div>Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component.</div> <div>Koropron primer - PN _____ Lot#_____ Exp. Date _____</div>		
7.6.3	<div>Install the indicated component on the TTCB base plate as shown in the figure below.</div> <div><div><div>X7</div><div>(Screw) NAS1351 N08-LB1-4</div><div>(Washer) NAS1149EN832R</div><div>Threaded collar</div></div><div></div></div>		
7.6.4	<div>Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).</div> <div>Braycote Grease - PN _____ Lot#_____ Exp. Date _____</div>		

5. Page 31 of 116														
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0										
			6. MOD NO.											
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)				VERIFICATION									
					22. TECH	23. QA/DV								
7.7	Install the fasteners as per figure 4 and record fasteners lot number (write by hand) Bolt/washer/nut and number NAS number LOT _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____													
7.8	Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table. <table border="1"><thead><tr><th rowspan="2">Dash Number</th><th colspan="2">Torque (in*lbf)</th></tr><tr><th>Max</th><th>Min</th></tr></thead><tbody><tr><td>Screw NAS1351N08-LB14</td><td>26.863</td><td>22.834</td></tr></tbody></table>				Dash Number	Torque (in*lbf)		Max	Min	Screw NAS1351N08-LB14	26.863	22.834		
Dash Number	Torque (in*lbf)													
	Max	Min												
Screw NAS1351N08-LB14	26.863	22.834												
7.9	Check this value with the table at the end of this ATS. Locking torque shall be in 1.5-15 inch*lbf (size 0.164) Locking is on the bolt side.													
7.10	Check this value with Table 1 at the start of this ATS. Final torque shall be the seating torque ABOVE LOCKING TORQUE. 5% precision on torque.													

		5. Page 32 of 116																															
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																														
		6. MOD NO.																															
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																															
		22. TECH	23. QA/DV																														
	<div></div> <p>Torque Wrench- Locking Torque (locking is the same as running torque)</p> <p>PN _____ M# _____ Cal Due Date_____</p> <p>Torque Wrench- Final Torque</p> <p>PN _____ M# _____ Cal Due Date_____</p> <table><thead><tr><th>Bolt indication (see figure above)</th><th>Locking Torque</th><th>Final Torque</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table> <p>7.11 End of online operation ACCU BRACKET to COLLAR</p>	Bolt indication (see figure above)	Locking Torque	Final Torque	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____		
Bolt indication (see figure above)	Locking Torque	Final Torque																															
_____	_____	_____																															
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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																
		6. MOD NO.																	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)		VERIFICATION																
		22. TECH	23. QA/DV																
8.	INSTALLATION OF PIPE CLAMP TO ACCU BRACKETS																		
8.1	Prepare the ACCU PIPE CLAMP for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																		
8.2	Prepare screws and washers to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																		
8.3	Perform a visual inspection of the ACCU BRACKET; check the cleanliness of all the INSERTS. If necessary clean them with Isopropyl Alcohol																		
8.4	Weight all the hardware to be installed, including fasteners. Record the weight																		
	<table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>		ITEM	WEIGHT															
ITEM	WEIGHT																		
	SCALE																		
8.5	PN _____ M# _____ Cal Date_____																		
8.6	WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision																		

		5. Page 34 of 116	
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
8.6.1	Check the bill of material in the assembly drawing.		
8.6.2	<div>Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component.</div> <div>Koropron primer - PN _____ Lot# _____ Exp. Date _____</div>		
8.6.3	<div>Install the indicated component on the TTCB base plate as shown in the figure below.</div> <div></div> <div><div><div>X 4</div><div>(Screw) NAS1351N06-10</div><div>(Washer) NAS1149EN532R</div><div>(Insert) MS21209F0625</div></div><div></div></div> <div>Figure 4: Installation of ACCU PIPE CLAMP TO ACCU BRACKET</div>		
8.6.4	<div>Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).</div> <div>Braycote Grease - PN _____ Lot# _____ Exp. Date _____</div>		

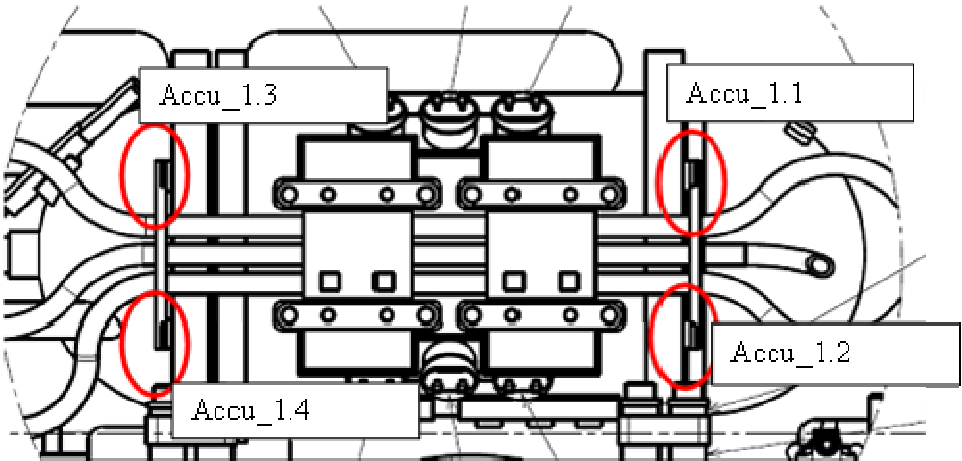
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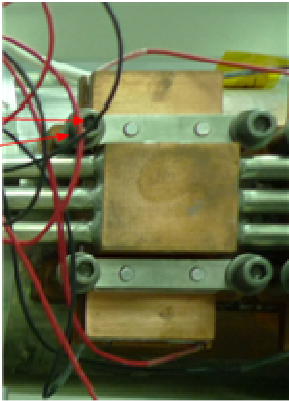
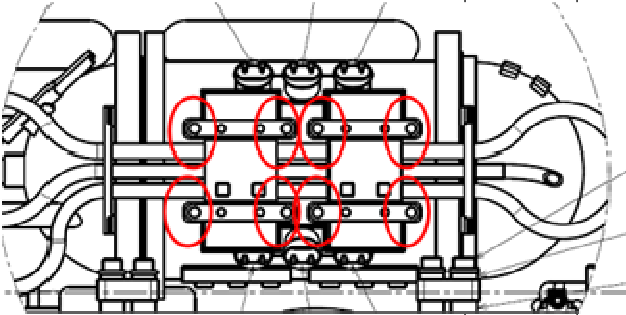
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20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																															
		22. TECH	23. QA/DV																														
8.7	<p>Install the fasteners as per figure 4 and record fasteners lot number (write by hand)</p> <table border="0"> <tr> <td>Bolt/washer/nut and number</td> <td>NAS number</td> <td>LOT</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>LOT# _____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>LOT# _____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>LOT# _____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>LOT# _____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>LOT# _____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>LOT# _____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>LOT# _____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>LOT# _____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>LOT# _____</td> </tr> </table>	Bolt/washer/nut and number	NAS number	LOT	_____	_____	LOT# _____	_____	_____	LOT# _____	_____	_____	LOT# _____	_____	_____	LOT# _____	_____	_____	LOT# _____	_____	_____	LOT# _____	_____	_____	LOT# _____	_____	_____	LOT# _____	_____	_____	LOT# _____		
Bolt/washer/nut and number	NAS number	LOT																															
_____	_____	LOT# _____																															
_____	_____	LOT# _____																															
_____	_____	LOT# _____																															
_____	_____	LOT# _____																															
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_____	_____	LOT# _____																															
_____	_____	LOT# _____																															
_____	_____	LOT# _____																															
8.8	<p>Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table.</p> <table border="1"> <tr> <th rowspan="2">Dash Number</th> <th colspan="2">Torque (in*lb)</th> </tr> <tr> <th>Max</th> <th>Min</th> </tr> <tr> <td>Screw NAS1351N06-10</td> <td>15.662</td> <td>13.312</td> </tr> </table>	Dash Number	Torque (in*lb)		Max	Min	Screw NAS1351N06-10	15.662	13.312																								
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Screw NAS1351N06-10	15.662	13.312																															
8.9	<p>Check this value with the table at the end of this ATS.</p> <p>Locking torque shall be in 1-10 inch*lb (size 0.138)</p>																																
8.10	<p>Check this value with Table 1 at the start of this ATS.</p> <p>Final torque shall be the seating torque ABOVE LOCKING TORQUE.</p> <p>5% precision on torque.</p>																																

		5. Page 36 of 116																												
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																											
		6. MOD NO.																												
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																												
		22. TECH	23. QA/DV																											
	<div></div> <p>Torque Wrench- Locking Torque (locking is the same as running torque)</p> <p>PN _____ M# _____ Cal Due Date _____</p> <p>Torque Wrench- Final Torque</p> <p>PN _____ M# _____ Cal Due Date _____</p> <table><thead><tr><th>Bolt indication (see figure above)</th><th>Locking Torque</th><th>Final Torque</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table>	Bolt indication (see figure above)	Locking Torque	Final Torque	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____		
Bolt indication (see figure above)	Locking Torque	Final Torque																												
_____	_____	_____																												
_____	_____	_____																												
_____	_____	_____																												
_____	_____	_____																												
_____	_____	_____																												
_____	_____	_____																												
_____	_____	_____																												
_____	_____	_____																												
8.11	End of online operation PIPE CLAMP to ACCU BRACKETS																													

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0																	
			6. MOD NO.																		
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION																	
				22. TECH	23. QA/DV																
9.	RETORQUING OF PELTIER TO ACCU SADDLE																				
9.1	Prepare the ACCU PIPE CLAMP for RETORQUING. Perform a visual inspection of the parts to be re-torqued;																				
9.2	Perform a visual inspection of the ACCU BRACKET; check the cleanliness of all the INSERTS. If necessary clean them with Isopropyl Alcohol																				
9.3	Weight all the hardware to be installed, including fasteners. Record the weight																				
	<table><thead><tr><th>ITEM</th><th>WEIGHT</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>			ITEM	WEIGHT																
ITEM	WEIGHT																				
	SCALE																				
9.4	PN _____ M# _____ Cal Date_____																				
9.5	WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision																				
9.5.1	Check the bill of material in the assembly drawing.																				

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0												
		6. MOD NO.													
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION													
		22. TECH	23. QA/DV												
9.5.2	<p>Check the indicated components are installed as shown in the figure below.</p> <div><div><div>X 8</div><div>(Screw) NAS1351N08-12</div><div>(Washer) NAS1149EN832R</div><div>(Insert) MS21209F0820</div></div></div> <p><i>Figure 4: Installation of PELTIER TO ACCU SADDLE</i></p>														
9.5.3	<p>Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings). CHECK WITH PROJECT ENGINEER HERE</p> <p>Braycote Grease - PN _____ Lot# _____ Exp. Date _____</p>														
9.6	<p>Install the fasteners as per figure 4 and record fasteners lot number (write by hand)</p> <table><thead><tr><th>Bolt/washer/nut and number</th><th>NAS number</th><th>LOT</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>LOT# _____</td></tr><tr><td>_____</td><td>_____</td><td>LOT# _____</td></tr><tr><td>_____</td><td>_____</td><td>LOT# _____</td></tr></tbody></table>	Bolt/washer/nut and number	NAS number	LOT	_____	_____	LOT# _____	_____	_____	LOT# _____	_____	_____	LOT# _____		
Bolt/washer/nut and number	NAS number	LOT													
_____	_____	LOT# _____													
_____	_____	LOT# _____													
_____	_____	LOT# _____													

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4. ATS NO.

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6. MOD NO.

20. OPER
SEQ. NO.21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

22. TECH

23. QA/DV

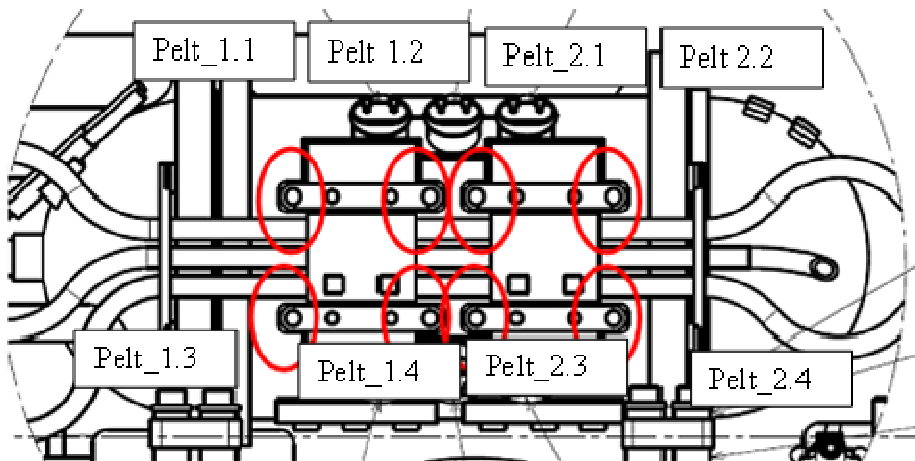
- 9.7 Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table.

Dash Number	Torque (in*lb)	
	Max	Min
Screw NAS1351N08-12	26.863	22.834

- 9.8 Check this value with the table at the end of this ATS.

Locking torque shall be in **1.5-15 inch*lb (size 0.164)**

- 9.9 Check this value with Table 1 at the start of this ATS.
Final torque shall be the seating torque ABOVE LOCKING TORQUE.
5% precision on torque.



Torque Wrench- Locking Torque (locking is the same as running torque)

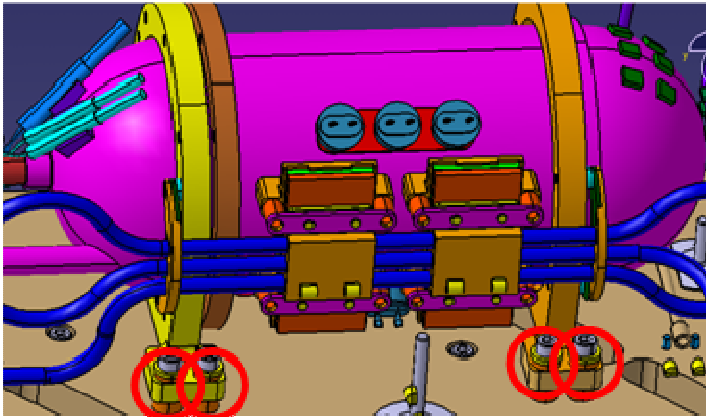
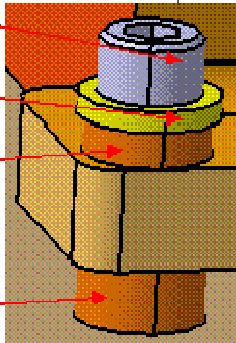
PN _____ M# _____ Cal Due Date _____

Torque Wrench- Final Torque

PN _____ M# _____ Cal Due Date _____

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0		
			6. MOD NO.			
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)				VERIFICATION	
					22. TECH	23. QA/DV
	<div><div>Bolt indication (see figure above)</div><div>Locking Torque</div><div>Final Torque</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div>					
9.10	End of online operation PELTIER to ACCU SADDLE					

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0																					
			6. MOD NO.																						
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION																					
				22. TECH	23. QA/DV																				
10.	INSTALLATION OF TTCS PRIMARY ACCUMULATOR ONTO THE TTCB PRIMARY BASE PLATE																								
10.1	Prepare the TTCS Accumulator for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																								
10.2	Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																								
10.3	Perform a visual inspection of the base plate; check the cleanliness of all the inserts. If necessary clean them with Isopropyl Alcohol																								
10.4	Weight all the hardware to be installed, including fasteners. Record the weight																								
	<table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>			ITEM	WEIGHT																				
ITEM	WEIGHT																								
10.5	SCALE PN _____ M# _____ Cal Date_____																								

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
10.6	<p>WARNING: for TTCB installation reference drawings are as stated at the start of this ATS.</p> <p>Verify before use the availability of the approved drawing revision</p>		
10.6.1	Check the bill of material in the assembly drawing.		
10.6.2	<p>Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component.</p> <p>Koropron primer - PN _____ Lot# _____ Exp. Date _____</p>		
10.6.3	<p>Install the indicated component on the TTCB base plate as shown in the figure below.</p> <div></div> <div><div>X 8</div><div>(Screw)NAS1351N3-16</div><div>(Washer)NAS1149E0363R</div><div>THERMAL WASHER-15.3 10x5x3</div><div>THERMAL WASHER-15.4 10x5x5</div><div></div></div>		
<p>Figure 4: Installation of HX supports to dummy base plate</p>			

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6. MOD NO.

20. OPER
SEQ. NO.

21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

22. TECH

23. QA/DV

10.6.4 Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).

Braycote Grease - PN _____ Lot# _____ Exp. Date _____

10.7	Install the fasteners as per figure 4 and record fasteners lot number (write by hand)
------	---

Bolt/washer/nut and number	NAS number	LOT
----------------------------	------------	-----

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

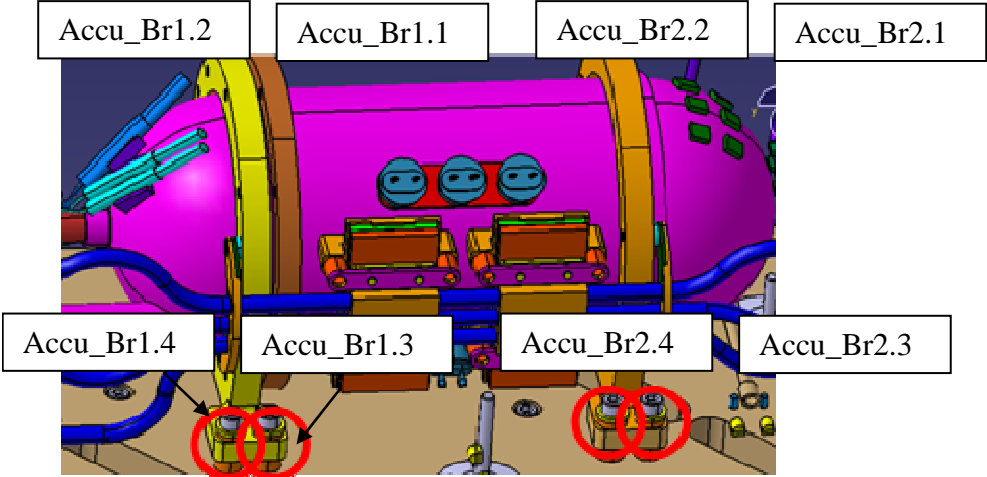
_____ LOT# _____

10.8	Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table
------	---

Dash Number	Torque (in*lb)	
	Max	Min
Screw NAS1351N3-16	42.237	35.901

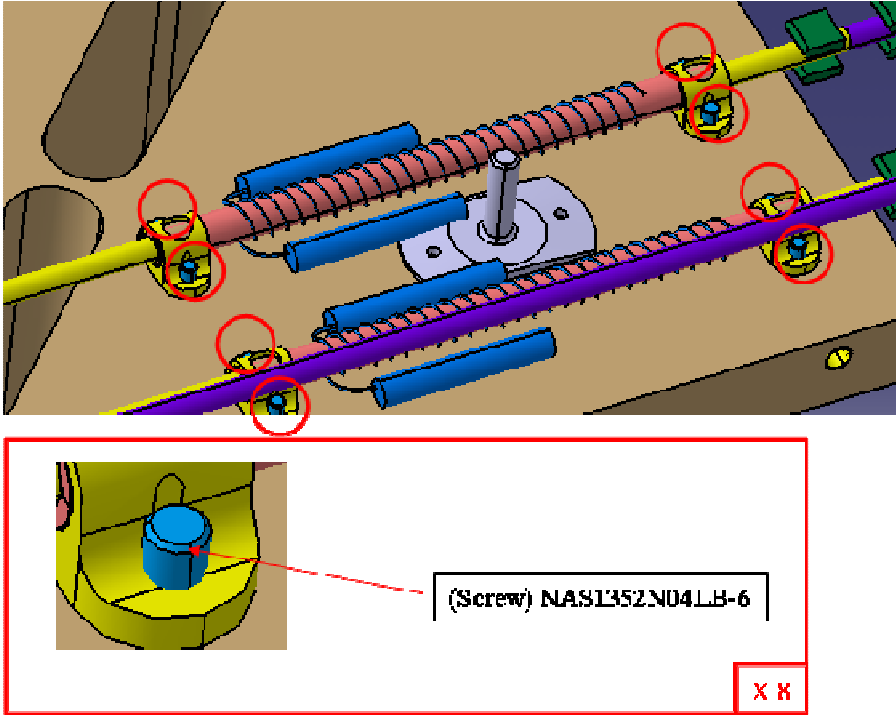
10.9 Check this value with the table at the end of this ATS.

Locking torque shall be in between **2 – 18 inch*lb.** (size 0.190")

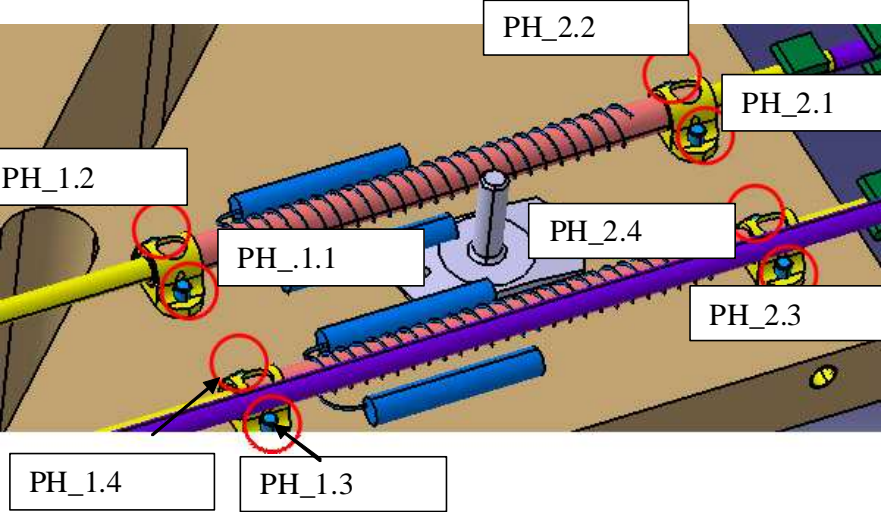
		5. Page 44 of 116																									
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																								
		6. MOD NO.																									
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																									
		22. TECH	23. QA/DV																								
10.10	<p>Check this value with Table 1 at the start of this ATS. Final torque shall be the seating torque ABOVE LOCKING TORQUE. 5% precision on torque.</p> <div><div>Accu_Br1.2</div><div>Accu_Br1.1</div><div>Accu_Br2.2</div><div>Accu_Br2.1</div></div> <p>Figure: Accumulator bolt indication</p> <p>Torque Wrench- Locking Torque (locking is the same as running torque)</p> <p>PN _____ M# _____ Cal Due Date _____</p> <p>Torque Wrench- Final Torque</p> <p>PN _____ M# _____ Cal Due Date _____</p> <table><thead><tr><th>Bolt indication (see figure above)</th><th>Locking Torque</th><th>Final Torque</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table>	Bolt indication (see figure above)	Locking Torque	Final Torque	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____		
Bolt indication (see figure above)	Locking Torque	Final Torque																									
_____	_____	_____																									
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_____	_____	_____																									
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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0	
			6. MOD NO.		
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION	
				22. TECH	23. QA/DV
	Bolt indication (see figure above)	Locking Torque	Final Torque		
	_____	_____	_____		
	_____	_____	_____		
	_____	_____	_____		
	_____	_____	_____		
10.10.1	End of online operation accumulator				

5. Page 46 of 116																									
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																						
		6. MOD NO.																							
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION																					
				22. TECH	23. QA/DV																				
11.	INSTALLATION OF PREHEATER ONTO THE TTCB BASE PLATE																								
11.1	Prepare the TTCS PREHEATER for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																								
11.2	Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																								
11.3	Perform a visual inspection of the base plate; check the cleanliness of all the inserts. If necessary clean them with Isopropyl Alcohol																								
11.4	Weight all the hardware to be installed, including fasteners. Record the weight																								
	<table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>			ITEM	WEIGHT																				
ITEM	WEIGHT																								
11.5	SCALE PN _____ M# _____ Cal Date_____																								

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0			
		6. MOD NO.				
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION				
		22. TECH	23. QA/DV			
11.6	<p>WARNING: for TTCB installation reference drawings are as stated at the start of this ATS.</p> <p>Verify before use the availability of the approved drawing revision</p>					
11.6.1	Check the bill of material in the assembly drawing.					
11.6.2	<p>Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component.</p> <p>Koropron primer - PN _____ Lot# _____ Exp. Date _____</p>					
11.6.3	<p>Install the indicated component on the TTCB base plate as shown in the figure below.</p>  <p><i>Figure 4: Installation of pre-heater to base plate</i></p>					
11.6.4	<p>Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).</p> <p>Braycote Grease - PN _____ Lot# _____ Exp. Date _____</p>					
11.7	<p>Install the fasteners as per figure 4 and record fasteners lot number (write by hand)</p> <table border="0"> <tr> <td>Bolt/washer/nut and number</td> <td>NAS number</td> <td>LOT</td> </tr> </table>	Bolt/washer/nut and number	NAS number	LOT		
Bolt/washer/nut and number	NAS number	LOT				

5. Page 48 of 116														
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0											
		6. MOD NO.												
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION										
				22. TECH	23. QA/DV									
			LOT#											
			LOT#											
			LOT#											
			LOT#											
			LOT#											
			LOT#											
			LOT#											
			LOT#											
			LOT#											
			LOT#											
11.8	Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table													
	<table><tr><td>Dash Number</td><td colspan="2">Torque (in*lbf)</td></tr><tr><td>Screw</td><td>Max</td><td>Min</td></tr><tr><td>NAS1352N04LB-6</td><td>7.459</td><td>6.34</td></tr></table>					Dash Number	Torque (in*lbf)		Screw	Max	Min	NAS1352N04LB-6	7.459	6.34
Dash Number	Torque (in*lbf)													
Screw	Max	Min												
NAS1352N04LB-6	7.459	6.34												
11.9	Check this value with the table at the end of this ATS.													
	Locking torque shall be in between 0.5– 5 inch*lbf (size 0.112) Locking on bolt not as no insert is present.													
11.10	Check this value with Table 1 at the start of this ATS. Final torque shall be the seating torque ABOVE LOCKING TORQUE.													

		5. Page 49 of 116																															
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																														
		6. MOD NO.																															
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																															
		22. TECH	23. QA/DV																														
	<p>5% precision on torque.</p>  <p>Torque Wrench- Locking Torque (locking is the same as running torque)</p> <p>PN _____ M# _____ Cal Due Date _____</p> <p>Torque Wrench- Final Torque</p> <p>PN _____ M# _____ Cal Due Date _____</p> <table><thead><tr><th>Bolt indication (see figure above)</th><th>Locking Torque</th><th>Final Torque</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table> <p>Bolt indication (see figure above) Locking Torque Final Torque</p>	Bolt indication (see figure above)	Locking Torque	Final Torque	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____		
Bolt indication (see figure above)	Locking Torque	Final Torque																															
_____	_____	_____																															
_____	_____	_____																															
_____	_____	_____																															
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5. Page 50 of 116					
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0	
			6. MOD NO.		
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION	
				22. TECH	23. QA/DV
11.11					
	End of online operation Pre-heater TTCB-P				

5. Page 51 of 116																									
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																						
		6. MOD NO.																							
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION																					
				22. TECH	23. QA/DV																				
12.	INSTALLATION OF COLD ORBIT HEATER ONTO THE TTCB BASE PLATE																								
12.1	Prepare the TTCS Cold orbit heater primary for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																								
12.2	Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																								
12.3	Perform a visual inspection of the base plate; check the cleanliness of all the inserts. If necessary clean them with Isopropyl Alcohol																								
12.4	Weight all the hardware to be installed, including fasteners. Record the weight																								
	<table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>			ITEM	WEIGHT																				
ITEM	WEIGHT																								
	SCALE																								
12.5	PN _____ M# _____ Cal Date_____																								

AMS-02 TASK SHEET (ATS)

CONTINUATION PAGE

4. ATS NO.

ATS 090127-1-R0

6. MOD NO.

VERIFICATION

22. TECH

23. QA/DV

20. OPER
SEQ. NO.21. OPERATIONS
(Print, Type, or Write Legibly)

12.6

WARNING: TTCB installation reference drawings are as indicated at the start of this ATS.

Verify before use the availability of the approved drawing revision

12.6.1

Check the bill of material in the assembly drawing.

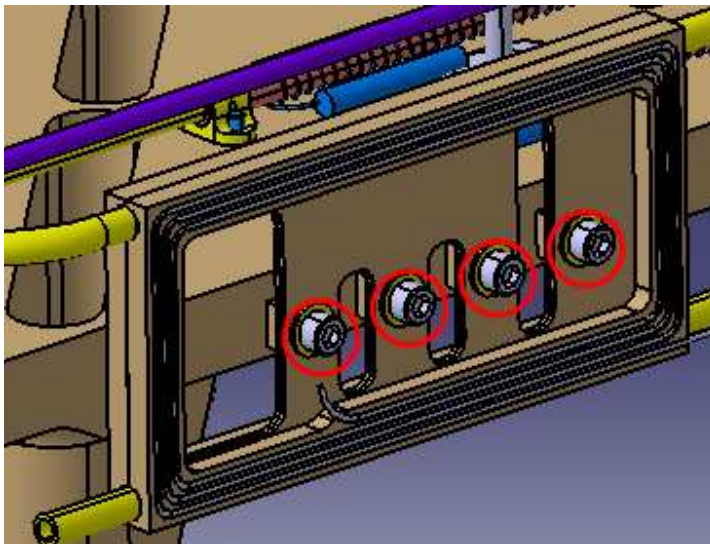
12.6.2

Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component.

Koropron primer - PN _____ Lot# _____ Exp. Date _____

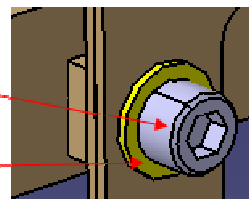
12.6.3

Install the indicated component on the TTCB base plate as shown in the figure below.



(Screws) NAS1352N08-10

(Washer) NAS1149EN832R



X 4

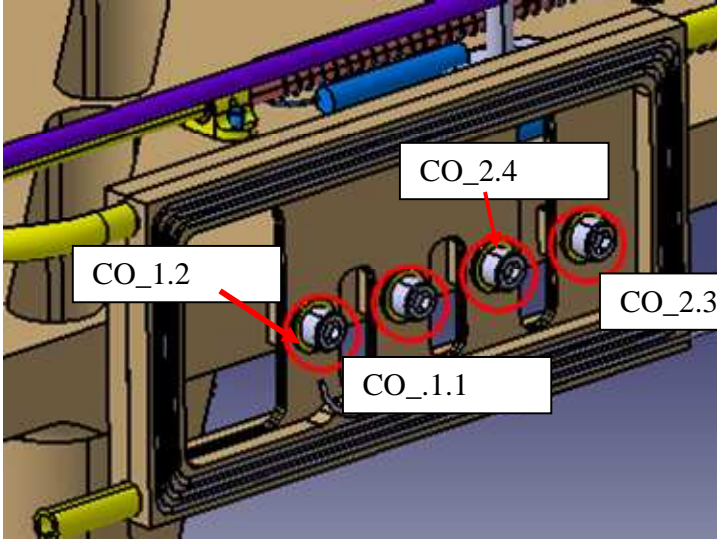
Figure 4: Installation of Cold orbit heater to base plate

12.6.4

Apply a thin layer of **Grease, Braycote 601EF (C1)**, to the threads of each bolt prior the installation (as reported on the assembly drawings).

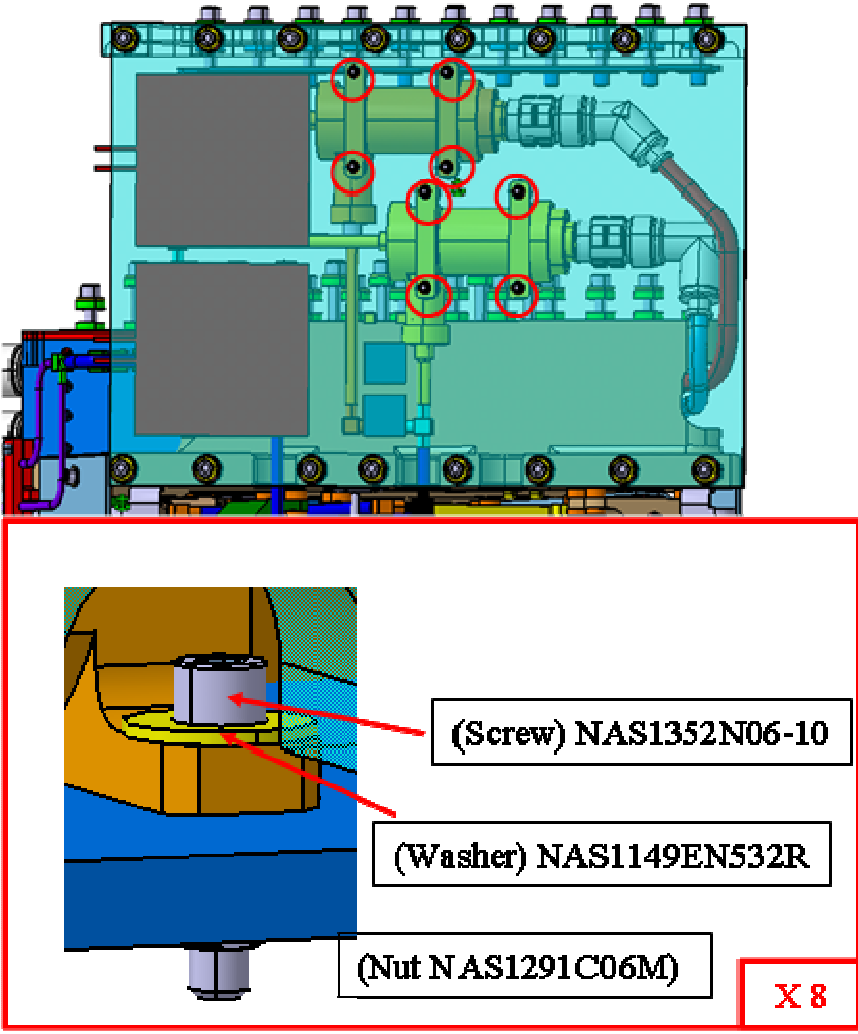
Braycote Grease - PN _____ Lot# _____ Exp. Date _____

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0										
		6. MOD NO.											
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION									
				22. TECH	23. QA/DV								
12.7	Install the fasteners as per figure 4 and record fasteners lot number (write by hand) Bolt/washer/nut and number NAS number LOT _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____												
12.8	Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table <table border="1"><thead><tr><th rowspan="2">Dash Number</th><th colspan="2">Torque (in*lb^f)</th></tr><tr><th>Max</th><th>Min</th></tr></thead><tbody><tr><td>Screw NAS1352N08-10</td><td>24.944</td><td>21.203</td></tr></tbody></table>			Dash Number	Torque (in*lb ^f)		Max	Min	Screw NAS1352N08-10	24.944	21.203		
Dash Number	Torque (in*lb ^f)												
	Max	Min											
Screw NAS1352N08-10	24.944	21.203											
12.9	Check this value with the table at the end of this ATS. Locking torque shall be in between 1.5– 15 inch*lb ^f .												
12.10	Check this value with Table 1 at the start of this ATS. Final torque shall be the seating torque ABOVE LOCKING TORQUE. 5% precision on torque.												

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																														
		6. MOD NO.																															
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																															
		22. TECH	23. QA/DV																														
	<div></div> <p>Torque Wrench- Locking Torque (locking is the same as running torque)</p> <p>PN _____ M# _____ Cal Due Date _____</p> <p>Torque Wrench- Final Torque</p> <p>PN _____ M# _____ Cal Due Date _____</p> <table><thead><tr><th>Bolt indication (see figure above)</th><th>Locking Torque</th><th>Final Torque</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table>	Bolt indication (see figure above)	Locking Torque	Final Torque	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____		
Bolt indication (see figure above)	Locking Torque	Final Torque																															
_____	_____	_____																															
_____	_____	_____																															
_____	_____	_____																															
_____	_____	_____																															
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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0	
			6. MOD NO.		
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION	
				22. TECH	23. QA/DV
12.11	Bolt indication (see figure above) Locking Torque Final Torque				
	<div></div>				
	<div></div>				
	<div></div>				
	<div></div>				
12.11	End of online operation cold orbit heater				

5. Page 56 of 116																									
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																						
		6. MOD NO.																							
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION																					
				22. TECH	23. QA/DV																				
13.	INSTALLATION OF PUMPS ONTO THE TTCB DUMMY RADIATOR PLATE																								
13.1	Prepare the TTCS PUMP for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																								
13.2	Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																								
13.3	Perform a visual inspection of the base plate; check the cleanliness of all the inserts. If necessary clean them with Isopropyl Alcohol																								
13.4	Weight all the hardware to be installed, including fasteners. Record the weight																								
	<table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>			ITEM	WEIGHT																				
ITEM	WEIGHT																								
13.5	SCALE PN _____ M# _____ Cal Date_____																								

		5. Page 57 of 116	
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
13.6	<p>WARNING: TTCB installation reference drawings are as indicated at the start of this ATS.</p> <p>Verify before use the availability of the approved drawing revision</p>		
13.6.1	Check the bill of material in the assembly drawing.		
13.6.2	<p>Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component.</p> <p>Koropron primer - PN _____ Lot# _____ Exp. Date _____</p>		
13.6.3	<p>Install the indicated component on the TTCB base plate as shown in the figure below.</p>  <p>Figure 4: Installation of pumps to the dummy radiator base plate</p>		

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CONTINUATION PAGE

4. ATS NO.

ATS 090127-1-R0

6. MOD NO.

20. OPER
SEQ. NO.

21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

22. TECH

23. QA/DV

13.6.4 Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).

Braycote Grease - PN _____ Lot# _____ Exp. Date _____

13.7	Install the fasteners as per figure 4 and record fasteners lot number (write by hand)
------	---

Bolt/washer/nut and number	NAS number	LOT
----------------------------	------------	-----

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

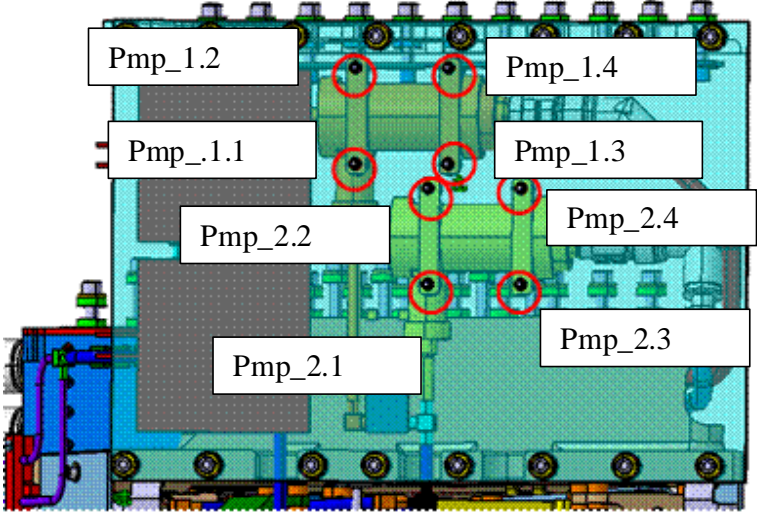
13.8	Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table.
------	--

Dash Number	Torque (in*lb)	
	Max	Min
Screw NAS1352N06-10	13.861	11.782

13.9 Check this value with the table at the end of this ATS.

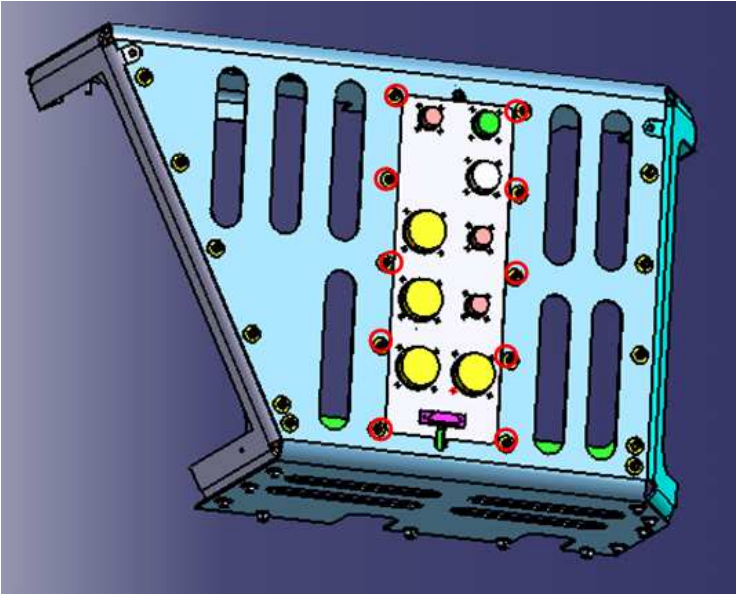
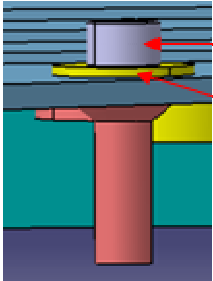
Locking torque shall be in between **1– 10 inch*lb (size 0.138)**.

13.10	<p>Check this value with Table 1 at the start of this ATS.</p> <p>Final torque shall be the seating torque ABOVE LOCKING TORQUE.</p> <p>5% precision on torque.</p>
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		5. Page 59 of 116		
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0	
		6. MOD NO.		
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)		VERIFICATION	
			22. TECH	23. QA/DV
				
	Torque Wrench- Locking Torque (locking is the same as running torque)			
	PN _____ M# _____ Cal Due Date_____			
	Torque Wrench- Final Torque			
	PN _____ M# _____ Cal Due Date_____			
	Bolt indication (see figure above)		Locking Torque	Final Torque
	_____		_____	_____
	_____		_____	_____
	_____		_____	_____
	_____		_____	_____
	_____		_____	_____
	_____		_____	_____
	_____		_____	_____
	_____		_____	_____
	_____		_____	_____

5. Page 60 of 116					
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0	
			6. MOD NO.		
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION	
				22. TECH	23. QA/DV
13.11	Bolt indication (see figure above) Locking Torque Final Torque				
	<div></div>				
	<div></div>				
	<div></div>				
	<div></div>				
13.11	End of online operation pumps				

5. Page 61 of 116																									
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20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION																					
				22. TECH	23. QA/DV																				
14.	INSTALLATION OF CONNECTOR PLATE TO BOX COVER																								
14.1	Prepare the CONNECTRO PLATE for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																								
14.2	Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																								
14.3	Perform a visual inspection of the COVER check the cleanliness of all the RIVNUTS. If necessary clean them with Isopropyl Alcohol																								
14.4	Weight all the hardware to be installed, including fasteners. Record the weight																								
	<table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>			ITEM	WEIGHT																				
ITEM	WEIGHT																								
	SCALE																								
14.5	PN _____ M# _____ Cal Date_____																								

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
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20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
14.6	WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision		
14.6.1	Check the bill of material in the assembly drawing.		
14.6.2	Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component. Koropron primer - PN _____ Lot# _____ Exp. Date _____		
14.6.3	Install the indicated component on the TTCB base plate as shown in the figure below.   <div>(Screw) NAS1352N06-6 (Washer) NAS1149EN532R</div> <div>X 10</div>		
Figure 4: Installation of connector plate to cover			

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SEQ. NO.

21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

22. TECH

23. QA/DV

14.6.4 Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).

Braycote Grease - PN _____ Lot# _____ Exp. Date _____

14.7	Install the fasteners as per figure 4 and record fasteners lot number (write by hand)
------	---

Bolt/washer/nut and number	NAS number	LOT
----------------------------	------------	-----

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

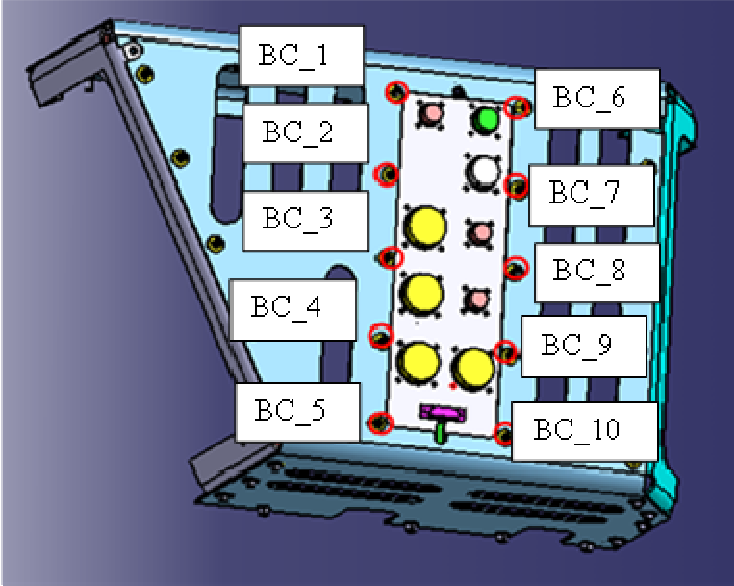
14.8	Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table.
------	--

Dash Number	Torque (in*lb)	
	Max	Min
Screw NAS1352N06-6	13.861	11.782

14.9 Check this value with the table at the end of this ATS.

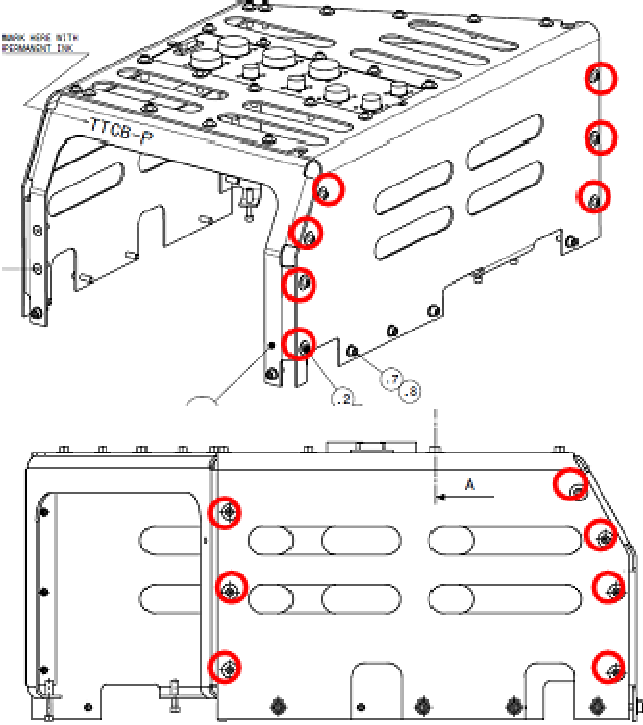
Locking torque shall be in between **1– 10 inch*lbf (size 0.138)**.

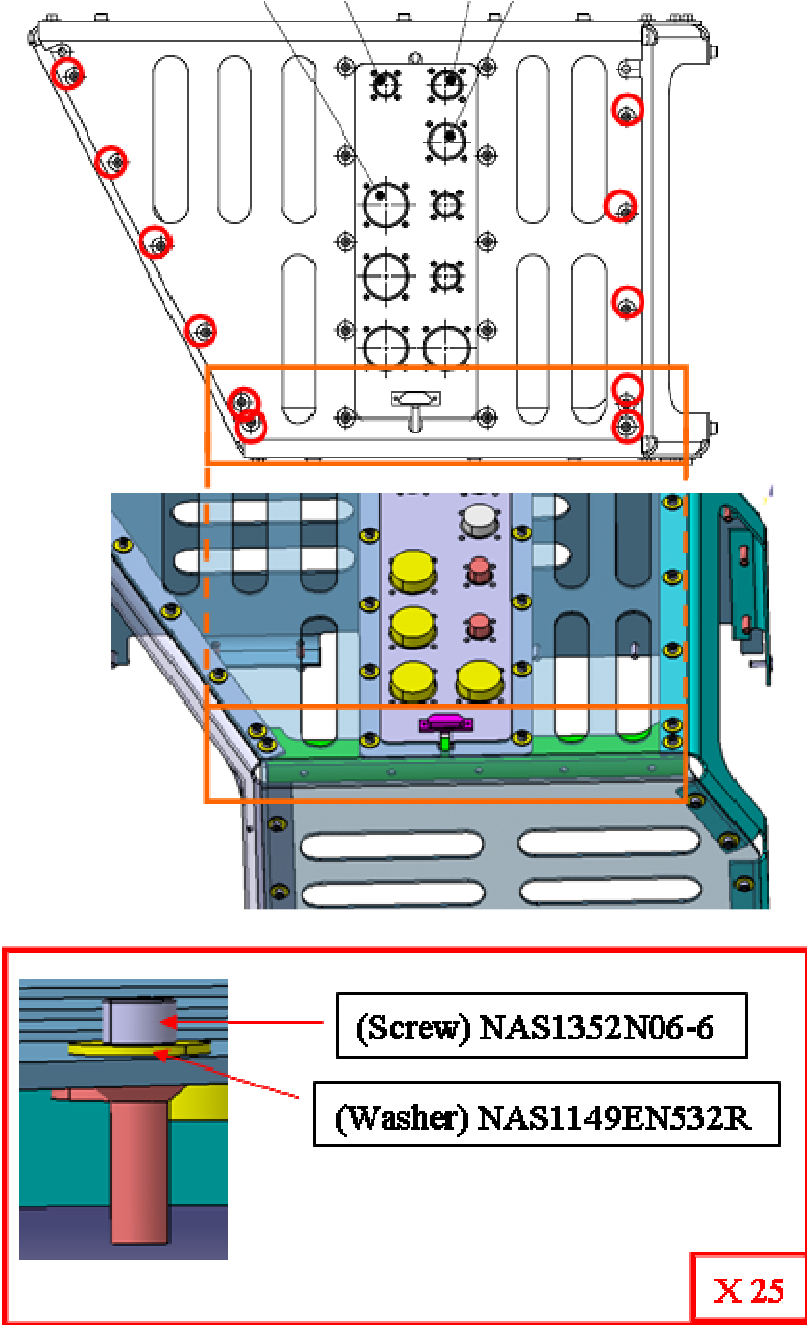
14.10	<p>Check this value with Table 1 at the start of this ATS.</p> <p>Final torque shall be the seating torque ABOVE LOCKING TORQUE.</p> <p>5% precision on torque.</p>
-------	---

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																											
		6. MOD NO.																												
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																												
		22. TECH	23. QA/DV																											
	<div></div> <p>Torque Wrench- Locking Torque (locking is the same as running torque)</p> <p>PN _____ M# _____ Cal Due Date _____</p> <p>Torque Wrench- Final Torque</p> <p>PN _____ M# _____ Cal Due Date _____</p> <table><thead><tr><th>Bolt indication (see figure above)</th><th>Locking Torque</th><th>Final Torque</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table>	Bolt indication (see figure above)	Locking Torque	Final Torque	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____		
Bolt indication (see figure above)	Locking Torque	Final Torque																												
_____	_____	_____																												
_____	_____	_____																												
_____	_____	_____																												
_____	_____	_____																												
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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0		
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20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)				VERIFICATION	
					22. TECH	23. QA/DV
14.11	Bolt indication (see figure above) Locking Torque Final Torque					
	<div></div>					
	<div></div>					
	<div></div>					
	<div></div>					
	End of online operation cover and connector plate					

		5. Page 66 of 116																					
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																				
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20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																					
		22. TECH	23. QA/DV																				
15.	<p>INSTALLATION OF Cover to CoverRibs (PPBOX & PPfront &PPback)</p> <p>15.1 Prepare the Cover and Cover ribs for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel</p> <p>15.2 Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel</p> <p>15.3 Perform a visual inspection of the COVER check the cleanliness of all the RIVNUTS. If necessary clean them with Isopropyl Alcohol</p> <p>15.4 Weight all the hardware to be installed, including fasteners. Record the weight</p> <table><thead><tr><th>ITEM</th><th>WEIGHT</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table> <p>SCALE</p> <p>15.5 PN _____ M# _____ Cal Date_____</p>	ITEM	WEIGHT																				
ITEM	WEIGHT																						

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
15.6	WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision		
15.6.1	Check the bill of material in the assembly drawing.		
15.6.2	Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component. Koropron primer - PN _____ Lot# _____ Exp. Date _____		
15.6.3	Install the indicated components as shown in the figure below. 		

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)		VERIFICATION
			22. TECH
			23. QA/DV
	<div></div>		
15.6.4	Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings). Braycote Grease - PN _____ Lot# _____ Exp. Date _____		

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4. ATS NO.

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20. OPER
SEQ. NO.

21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

22. TECH

23. QA/DV

15.7

Install the fasteners as per figure 4 and record fasteners lot number (write by hand)

Bolt/washer/nut and number

NAS number

LOT

LOT# _____

LOT# _____

LOT# _____

LOT# _____

LOT# _____

LOT# _____

LOT# _____

LOT# _____

LOT# _____

15.8

Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table.

Dash Number	Torque (in*lbft)	
	Max	Min
Screw NAS1352N06-6	13.861	11.782

15.9

Check this value with the table at the end of this ATS.

Locking torque shall be in between **1– 10 inch*lbf (size 0.138)**.

15.10

Check this value with Table 1 at the start of this ATS.

Final torque shall be the seating torque ABOVE LOCKING TORQUE.
5% precision on torque.

AMS-02 TASK SHEET (ATS)

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4. ATS NO.

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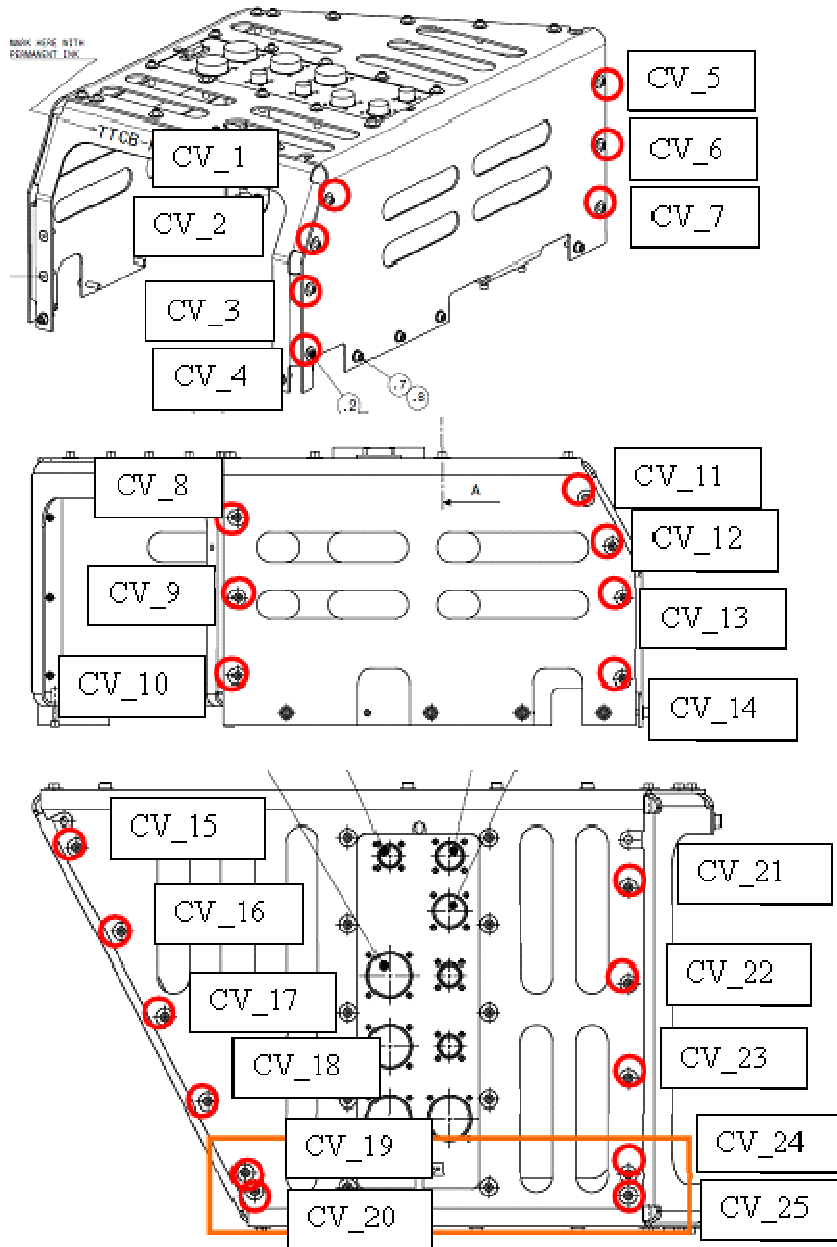
6. MOD NO.

20. OPER
SEQ. NO.21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

22. TECH

23. QA/DV



Torque Wrench- Locking Torque (locking is the same as running torque)

PN _____ M# _____ Cal Due Date _____

Torque Wrench- Final Torque

PN _____ M# _____ Cal Due Date _____

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20. OPER
SEQ. NO.

21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

22. TECH

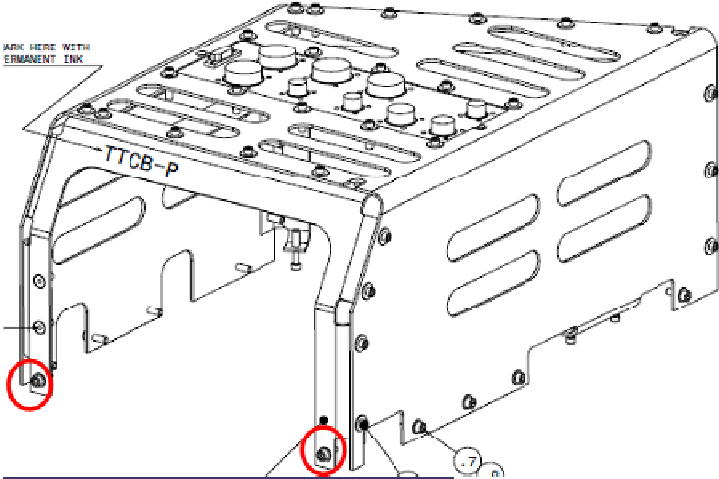

23. QA/DV

Bolt indication (see figure above)	Locking Torque	Final Torque
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	100	100
15	100	100
16	100	100
17	100	100
18	100	100
19	100	100
20	100	100
21	100	100
22	100	100
23	100	100
24	100	100
25	100	100
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29	100	100
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31	100	100
32	100	100
33	100	100
34	100	100
35	100	100
36	100	100
37	100	100
38	100	100
39	100	100
40	100	100
41	100	100
42	100	100
43	100	100
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47	100	100
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90	100	100
91	100	100
92	100	100
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94	100	100
95	100	100
96	100	100
97	100	100
98	100	100
99	100	100
100	100	100

[illegible]

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0	
			6. MOD NO.		
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION	
				22. TECH	23. QA/DV
	Bolt indication (see figure above)	Locking Torque	Final Torque		
	_____	_____	_____		
	_____	_____	_____		
	_____	_____	_____		
	_____	_____	_____		
	_____	_____	_____		
	_____	_____	_____		
	_____	_____	_____		
	_____	_____	_____		
	End of online operation cover to ribs installation				

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																				
		6. MOD NO.																					
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																					
		22. TECH	23. QA/DV																				
16.	<p>INSTALLATION OF FRONT COVER RIB TO BASE PLATE</p> <p>16.1 Prepare the FRONT COVER RIB for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel</p> <p>16.2 Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel</p> <p>16.3 Perform a visual inspection of the BASE PLATE check the cleanliness of all the INSERTS. If necessary clean them with Isopropyl Alcohol</p> <p>16.4 Weight all the hardware to be installed, including fasteners. Record the weight</p> <table><thead><tr><th>ITEM</th><th>WEIGHT</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table> <p>SCALE</p> <p>16.5 PN _____ M# _____ Cal Date_____</p>	ITEM	WEIGHT																				
ITEM	WEIGHT																						

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
16.6	WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision		
16.6.1	Check the bill of material in the assembly drawing.		
16.6.2	Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component. Koropron primer - PN _____ Lot# _____ Exp. Date _____		
16.6.3	Install the indicated components as shown in the figure below.  		

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20. OPER
SEQ. NO.

21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

22. TECH

23. QA/DV

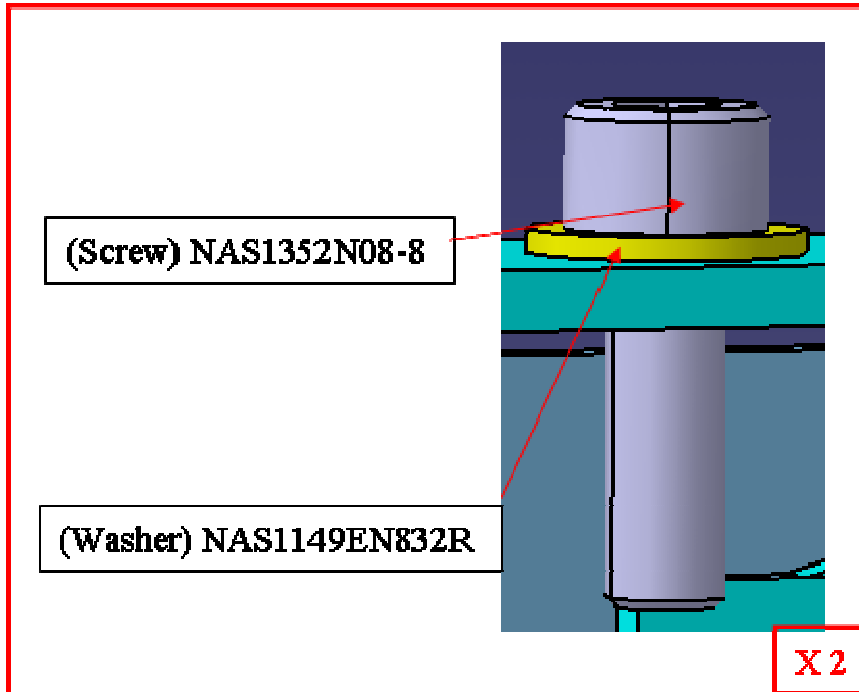


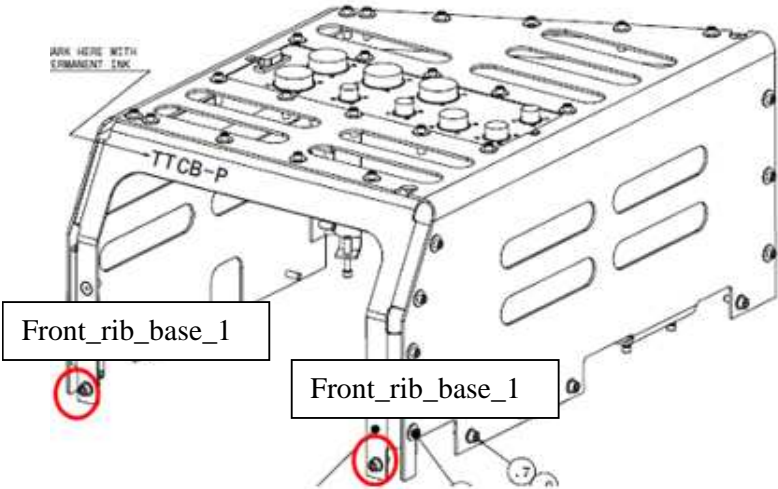
Figure 4: Connection of Front cover rib to base plate

- 16.6.4 Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).

Braycote Grease - PN _____ Lot# _____ Exp. Date _____

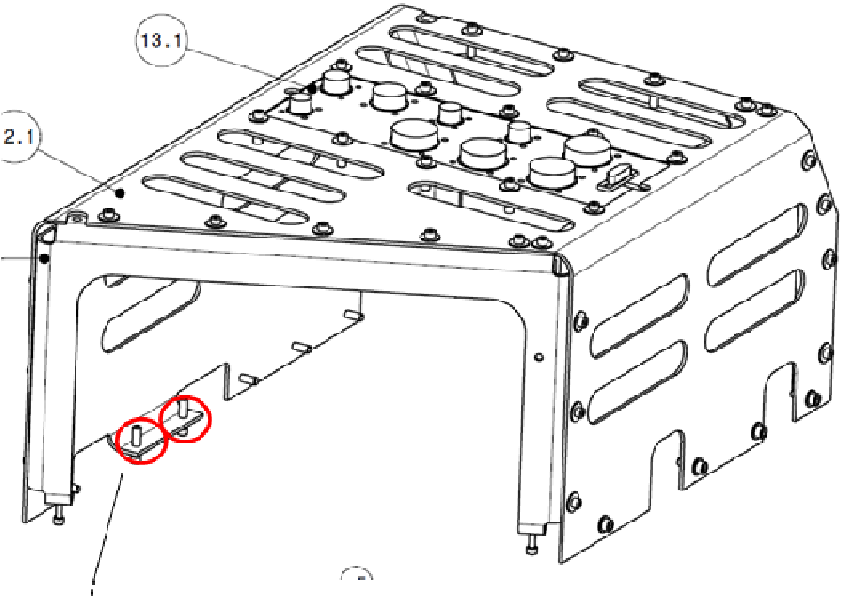
- | | |
|------|---|
| 16.7 | Install the fasteners as per figure 4 and record fasteners lot number (write by hand) |
|------|---|

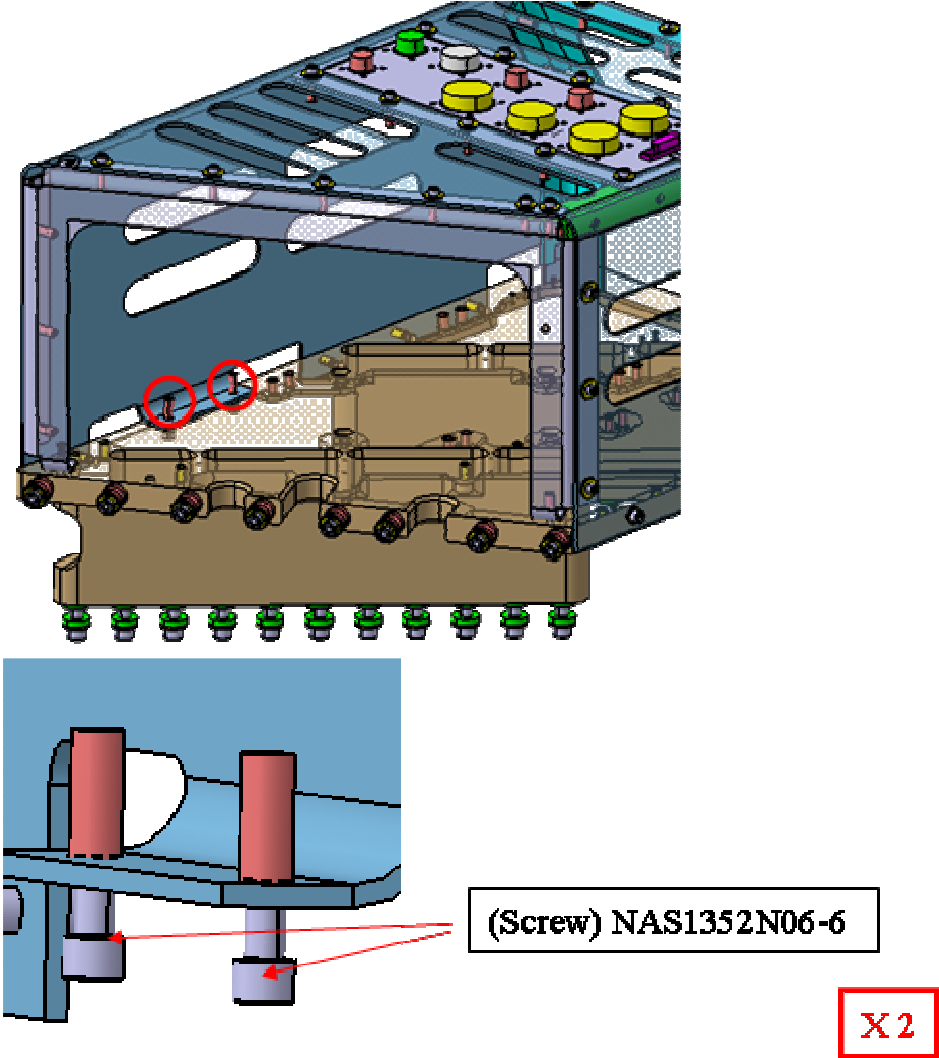
Bolt/washer/nut and number	NAS number	LOT
<hr/>		LOT# <hr/>
<hr/>		LOT# <hr/>
<hr/>		LOT# <hr/>
<hr/>		LOT# <hr/>
<hr/>		LOT# <hr/>
<hr/>		LOT# <hr/>
		LOT#

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0										
			6. MOD NO.											
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION										
				22. TECH	23. QA/DV									
16.8	Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table. <table border="1"><thead><tr><th>Dash Number</th><th colspan="2">Torque (in*lb)</th></tr><tr><th>Screw</th><th>Max</th><th>Min</th></tr></thead><tbody><tr><td>NAS1352N08-8</td><td>24.944</td><td>21.203</td></tr></tbody></table>			Dash Number	Torque (in*lb)		Screw	Max	Min	NAS1352N08-8	24.944	21.203		
Dash Number	Torque (in*lb)													
Screw	Max	Min												
NAS1352N08-8	24.944	21.203												
16.9	Check this value with the table at the end of this ATS. Locking torque shall be in between 1.5 – 15 inch*lb (size 0.164).													
16.10	Check this value with Table 1 at the start of this ATS. Final torque shall be the seating torque ABOVE LOCKING TORQUE. 5% precision on torque.  <p>Torque Wrench- Locking Torque (locking is the same as running torque)</p> <p>PN _____ M# _____ Cal Due Date_____</p> <p>Torque Wrench- Final Torque</p> <p>PN _____ M# _____ Cal Due Date_____</p>													

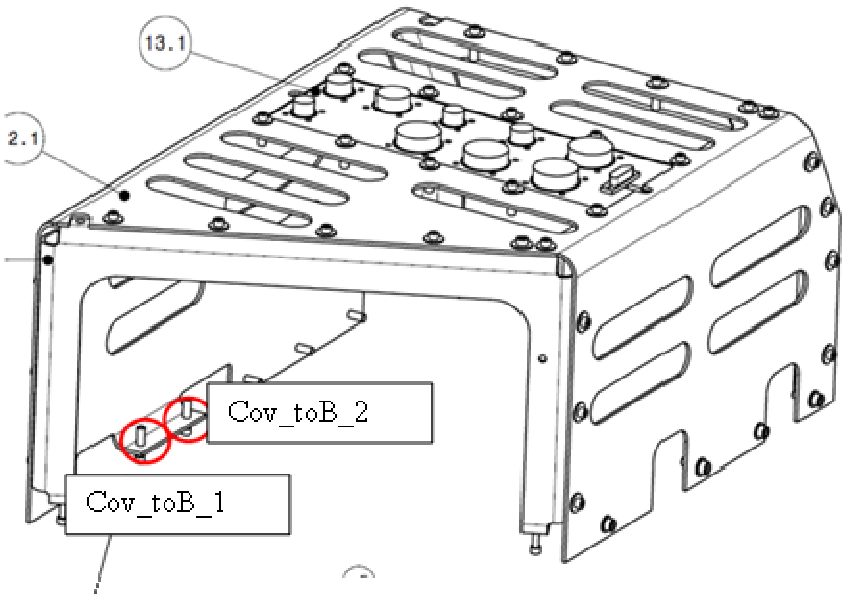
5. Page 77 of 116						
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0		
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20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)				VERIFICATION	
					22. TECH	23. QA/DV
16.11	Bolt indication (see figure above) Locking Torque Final Torque					
	<div></div>					
	<div></div>					
	<div></div>					
	<div></div>					
End of online operation cover to front cover rib to base plate						

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																						
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20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION																					
				22. TECH	23. QA/DV																				
17.	INSTALLATION OF Cover to Base plate rivnuts 1																								
17.1	Prepare the Cover for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																								
17.2	Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																								
17.3	Perform a visual inspection of the COVER check the cleanliness of all the RIVNUTS. If necessary clean them with Isopropyl Alcohol																								
17.4	Weight all the hardware to be installed, including fasteners. Record the weight																								
	<table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>			ITEM	WEIGHT																				
ITEM	WEIGHT																								
	SCALE																								
17.5	PN _____ M# _____ Cal Date_____																								

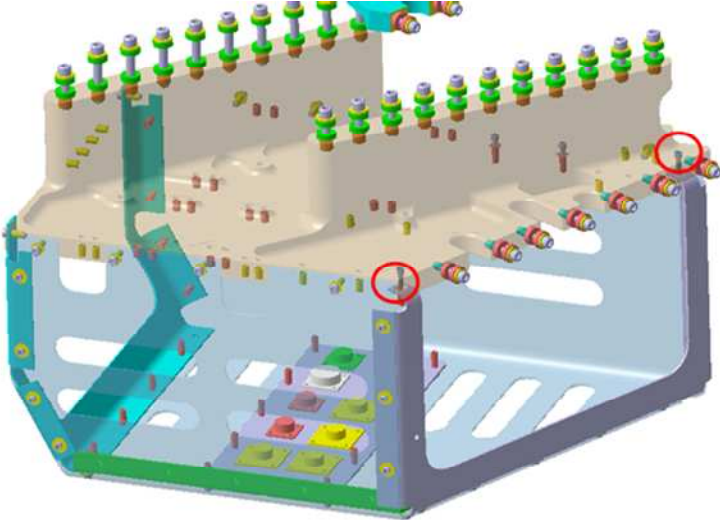
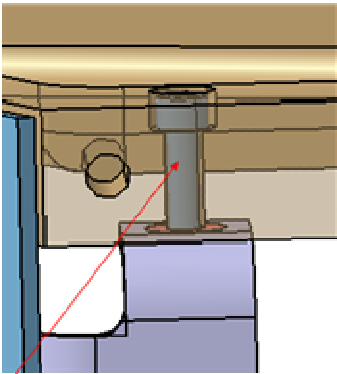
		5. Page 79 of 116	
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
17.6	<p>WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision</p>		
17.6.1	Check the bill of material in the assembly drawing.		
17.6.2	<p>Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component.</p> <p>Koropron primer - PN _____ Lot# _____ Exp. Date _____</p>		
17.6.3	<p>Install the indicated components as shown in the figure below.</p> 		

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		6. MOD NO.										
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION										
		22. TECH	23. QA/DV									
	<div></div> <p><i>Figure 4: Connection of cover to base plate</i></p> <p>17.6.4 Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).</p> <p>Braycote Grease - PN _____ Lot# _____ Exp. Date _____</p> <p>17.7 Install the fasteners as per figure 4 and record fasteners lot number (write by hand)</p> <table><tr><td>Bolt/washer/nut and number</td><td>NAS number</td><td>LOT</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td></td><td>LOT#</td><td>_____</td></tr></table>	Bolt/washer/nut and number	NAS number	LOT	_____	_____	_____		LOT#	_____		
Bolt/washer/nut and number	NAS number	LOT										
_____	_____	_____										
	LOT#	_____										

5. Page 81 of 116													
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0									
			6. MOD NO.										
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)				VERIFICATION								
				22. TECH	23. QA/DV								
			LOT#										
			LOT#										
			LOT#										
			LOT#										
			LOT#										
			LOT#										
			LOT#										
			LOT#										
			LOT#										
17.8	Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table.												
	<table><tr><td rowspan="2">Dash Number</td><td colspan="2">Torque (in*lb)</td></tr><tr><td>Max</td><td>Min</td></tr><tr><td>Screw NAS1352N06-6</td><td>13.861</td><td>11.782</td></tr></table>					Dash Number	Torque (in*lb)		Max	Min	Screw NAS1352N06-6	13.861	11.782
Dash Number	Torque (in*lb)												
	Max	Min											
Screw NAS1352N06-6	13.861	11.782											
17.9	Check this value with the table at the end of this ATS.												
	Locking torque shall be in between 1– 10 inch*lb (size 0.138).												
17.10	Check this value with Table 1 at the start of this ATS. Final torque shall be the seating torque ABOVE LOCKING TORQUE. 5% precision on torque.												

		5. Page 82 of 116																
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0															
		6. MOD NO.																
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																
		22. TECH	23. QA/DV															
	<div></div> <p>Torque Wrench- Locking Torque (locking is the same as running torque)</p> <p>PN _____ M# _____ Cal Due Date_____</p> <p>Torque Wrench- Final Torque</p> <p>PN _____ M# _____ Cal Due Date_____</p> <table><thead><tr><th>Bolt indication (see figure above)</th><th>Locking Torque</th><th>Final Torque</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table> <p>17.11 End of online operation cover to base plate rivnuts</p>	Bolt indication (see figure above)	Locking Torque	Final Torque	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____		
Bolt indication (see figure above)	Locking Torque	Final Torque																
_____	_____	_____																
_____	_____	_____																
_____	_____	_____																
_____	_____	_____																

5. Page 83 of 116																										
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0																						
			6. MOD NO.																							
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)				VERIFICATION																					
					22. TECH	23. QA/DV																				
18.	INSTALLATION OF Cover Rib to Base plate rivnuts 2																									
18.1	Prepare the Rib for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																									
18.2	Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																									
18.3	Perform a visual inspection of the base plate check the cleanliness of all the holes. If necessary clean them with Isopropyl Alcohol																									
18.4	Weight all the hardware to be installed, including fasteners. Record the weight																									
	<table><thead><tr><th>ITEM</th><th>WEIGHT</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>				ITEM	WEIGHT																				
ITEM	WEIGHT																									
	SCALE																									
18.5	PN _____ M# _____ Cal Date_____																									

		5. Page 84 of 116	
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
18.6	WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision		
18.6.1	Check the bill of material in the assembly drawing.		
18.6.2	<div>Only when indicated in drawing</div> apply a thin layer of Koropron primer in between washers and base plate and or component. Koropron primer - PN _____ Lot# _____ Exp. Date _____		
18.6.3	Install the indicated components as shown in the figure below. <div> <div>(Screw) NAS1352N06-12</div><div>X 2</div></div>		
Figure 4: Connection of cover rib to base plate			

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4. ATS NO.

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20. OPER
SEQ. NO.

21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

22. TECH

23. QA/DV

18.6.4 Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).

Braycote Grease - PN _____ Lot# _____ Exp. Date _____

18.7	Install the fasteners as per figure 4 and record fasteners lot number (write by hand)
------	---

Bolt/washer/nut and number	NAS number	LOT
----------------------------	------------	-----

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

18.8	Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table.
------	--

Dash Number	Torque (in*lb ^f)	
	Max	Min
Screw NAS1352N06-12	13.861	11.782

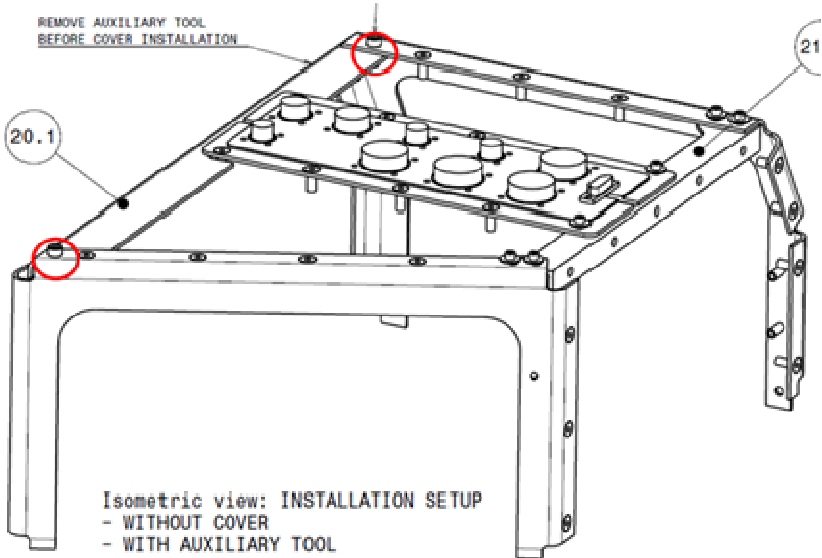
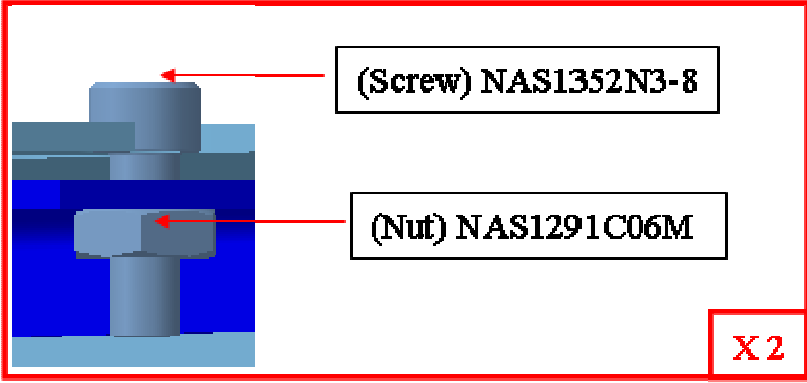
18.9 Check this value with the table at the end of this ATS.

Locking torque shall be in between **1– 10 inch*lbf (size 0.138)**.

18.10	<p>Check this value with Table 1 at the start of this ATS.</p> <p>Final torque shall be the seating torque ABOVE LOCKING TORQUE.</p> <p>5% precision on torque.</p>
-------	---

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0															
		6. MOD NO.																
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																
		22. TECH	23. QA/DV															
	<div></div> <p>Torque Wrench- Locking Torque (locking is the same as running torque)</p> <p>PN _____ M# _____ Cal Due Date_____</p> <p>Torque Wrench- Final Torque</p> <p>PN _____ M# _____ Cal Due Date_____</p> <table><thead><tr><th>Bolt indication (see figure above)</th><th>Locking Torque</th><th>Final Torque</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table> <p>End of online operation cover to base plate rivnuts 2</p>	Bolt indication (see figure above)	Locking Torque	Final Torque	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____		
Bolt indication (see figure above)	Locking Torque	Final Torque																
_____	_____	_____																
_____	_____	_____																
_____	_____	_____																
_____	_____	_____																

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																				
		6. MOD NO.																					
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																					
		22. TECH	23. QA/DV																				
19. INSTALLATION OF TEMPORARY INSTALLATION TOOL TO COVER																							
19.1	Prepare the Cover and auxilary tool for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																						
19.2	Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																						
19.3	Perform a visual inspection of the COVER check the cleanliness of all the RIVNUTS. If necessary clean them with Isopropyl Alcohol																						
19.4	Weight all the hardware to be installed, including fasteners. Record the weight																						
	<table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>	ITEM	WEIGHT																				
ITEM	WEIGHT																						
	SCALE																						
19.5	PN _____ M# _____ Cal Date_____																						

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
19.6	WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision		
19.6.1	Check the bill of material in the assembly drawing.		
19.6.2	Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component. Koropron primer - PN _____ Lot# _____ Exp. Date _____		
19.6.3	Install the indicated components as shown in the figure below.   <i>Figure 4: Connection of auxiliary tool to cover</i>		

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4. ATS NO.

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20. OPER
SEQ. NO.

21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

22. TECH

23. QA/DV

19.6.4 Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).

Braycote Grease - PN _____ Lot# _____ Exp. Date _____

19.7	Install the fasteners as per figure 4 and record fasteners lot number (write by hand)
------	---

Bolt/washer/nut and number	NAS number	LOT
----------------------------	------------	-----

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

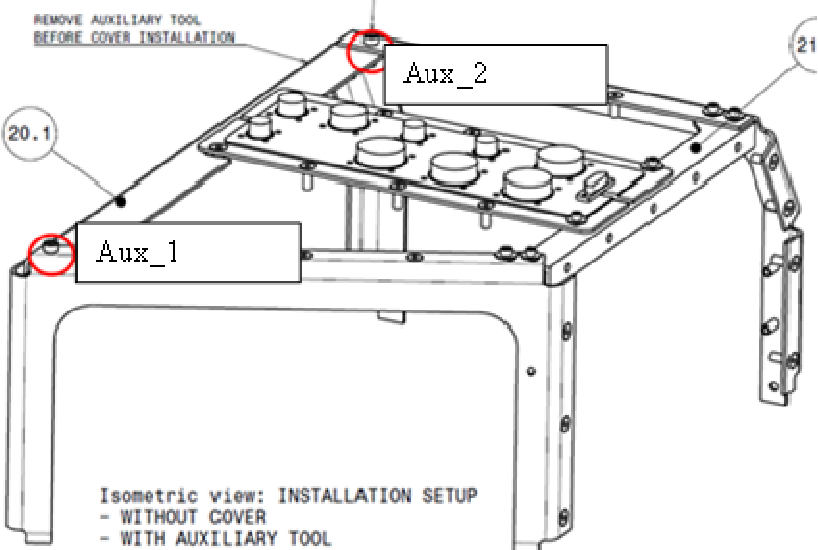
_____ LOT# _____

19.8	Torque the fasteners installed in the former step to the following torque value. Seating torque values are shown in below table.
------	--

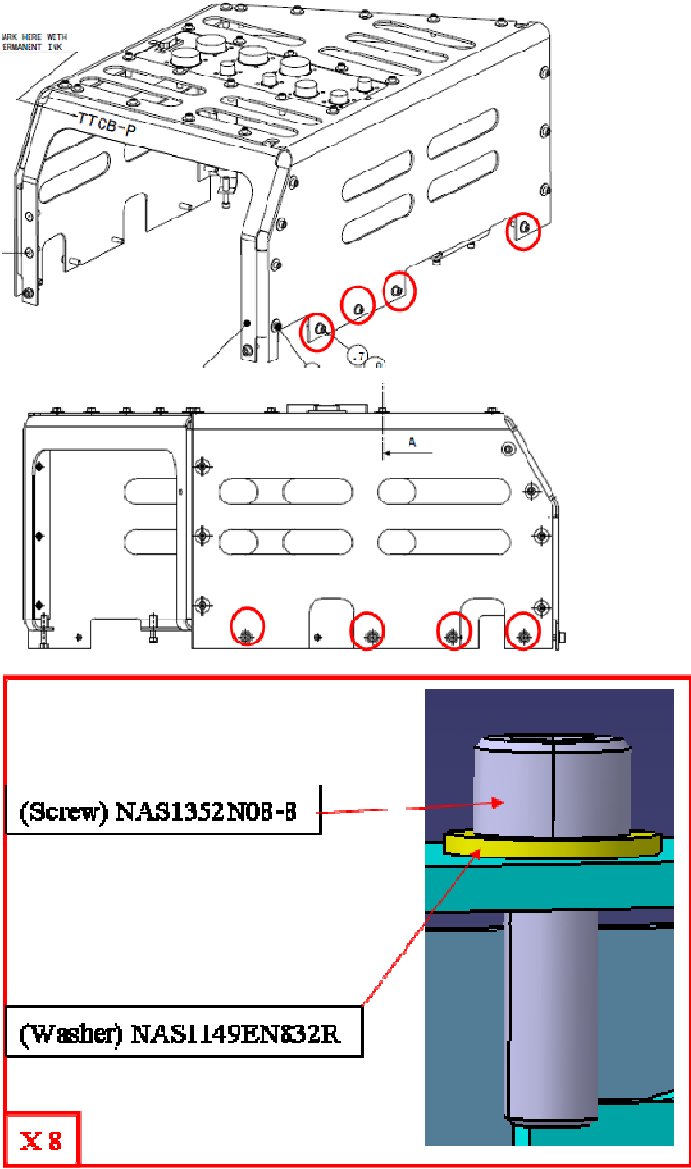
Dash Number	Torque (in*lb)	
	Max	Min
Screw NAS1352N06-6	13.861	11.782

19.9 Check this value with the table at the end of this ATS.
As this is a temporary screw and a nut without locking feature.
The Locking torque shall be approx **0-5 inch*lbf (size 0.138).**

19.10	Final torque shall be the seating torque ABOVE LOCKING TORQUE. 5% precision on torque.
-------	---

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0												
		6. MOD NO.													
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION													
		22. TECH	23. QA/DV												
	<p>Torque Wrench- Locking Torque (locking is the same as running torque)</p> <p>PN _____ M# _____ Cal Due Date_____</p> <p>Torque Wrench- Final Torque</p> <p>PN _____ M# _____ Cal Due Date_____</p>  <p>Bolt indication (see figure above) Locking Torque Final Torque</p> <table><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></table> <p>19.11 End of online operation auxiliary tool to cover</p>	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____		
_____	_____	_____													
_____	_____	_____													
_____	_____	_____													
_____	_____	_____													

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0																						
			6. MOD NO.																							
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)				VERIFICATION																					
					22. TECH	23. QA/DV																				
20.	INSTALLATION OF Cover to Base plate inserts																									
20.1	Prepare the Cover for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																									
20.2	Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																									
20.3	Perform a visual inspection of the base plate check the cleanliness of all the inserts to be used. If necessary clean them with Isopropyl Alcohol																									
20.4	Weight all the hardware to be installed, including fasteners. Record the weight																									
	<table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>				ITEM	WEIGHT																				
ITEM	WEIGHT																									
	SCALE																									
20.5	PN _____ M# _____ Cal Date_____																									
20.6	WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision																									

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
20.6.1	Check the bill of material in the assembly drawing.		
20.6.2	<div>Only when indicated in drawing</div> apply a thin layer of Koropron primer in between washers and base plate and or component. Koropron primer - PN _____ Lot# _____ Exp. Date _____		
20.6.3	Install the indicated components as shown in the figure below. <div><div>WORK HERE! WITH PERMANENT INK</div></div>		
<div>Figure 4: Connection of cover to base plate inserts</div>			

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4. ATS NO.

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20. OPER
SEQ. NO.

21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

22. TECH

23. QA/DV

20.6.4 Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).

Braycote Grease - PN _____ Lot# _____ Exp. Date _____

20.7	Install the fasteners as per figure 4 and record fasteners lot number (write by hand)
------	---

Bolt/washer/nut and number	NAS number	LOT
----------------------------	------------	-----

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

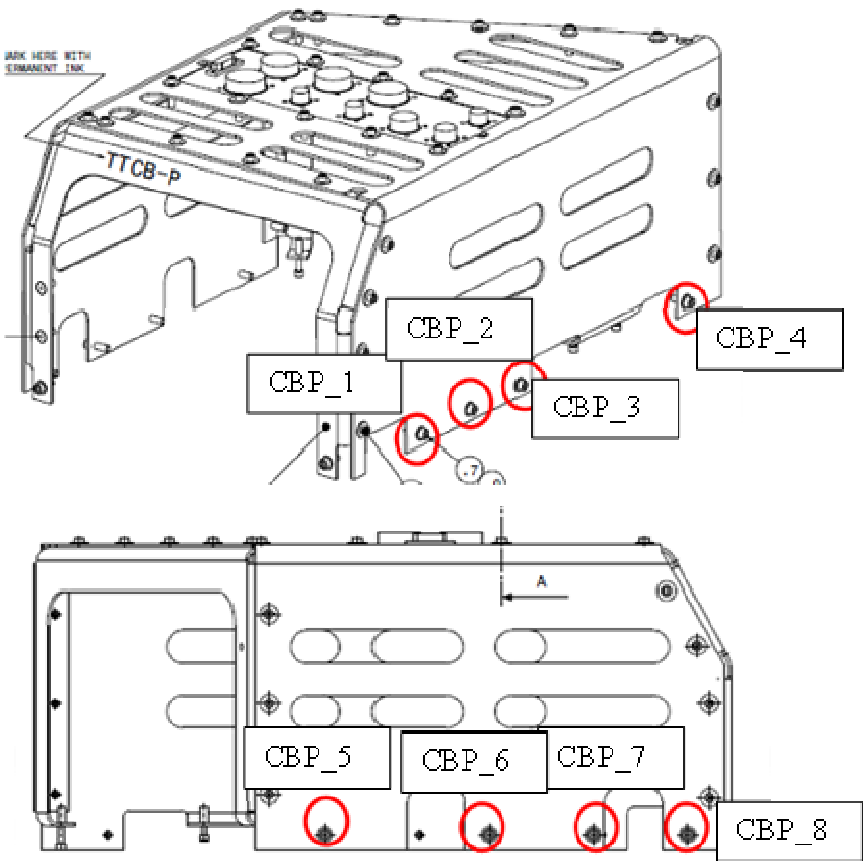
20.8	Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table.
------	--

Dash Number	Torque (in*lb)	
Screw	Max	Min
NAS1352N08-8	24.944	21.203

20.9 Check this value with the table at the end of this ATS.

Locking torque shall be in between **1.5-15 inch*lbf (size 0.164)**.

20.10	Check this value with Table 1 at the start of this ATS. Final torque shall be the seating torque ABOVE LOCKING TORQUE. 5% precision on torque.
-------	--

		5. Page 94 of 116													
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0												
		6. MOD NO.													
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION													
		22. TECH	23. QA/DV												
	<div></div> <p>Torque Wrench- Locking Torque (locking is the same as running torque)</p> <p>PN _____ M# _____ Cal Due Date _____</p> <p>Torque Wrench- Final Torque</p> <p>PN _____ M# _____ Cal Due Date _____</p> <table><thead><tr><th>Bolt indication (see figure above)</th><th>Locking Torque</th><th>Final Torque</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table>	Bolt indication (see figure above)	Locking Torque	Final Torque	_____	_____	_____	_____	_____	_____	_____	_____	_____		
Bolt indication (see figure above)	Locking Torque	Final Torque													
_____	_____	_____													
_____	_____	_____													
_____	_____	_____													

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0		
			6. MOD NO.			
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)				VERIFICATION	
					22. TECH	23. QA/DV
20.11	Bolt indication (see figure above)				Locking Torque	Final Torque
	<hr/>				<hr/>	<hr/>
	<hr/>				<hr/>	<hr/>
	<hr/>				<hr/>	<hr/>
	<hr/>				<hr/>	<hr/>
	<hr/>				<hr/>	<hr/>
	<hr/>				<hr/>	<hr/>
	<hr/>				<hr/>	<hr/>
	<hr/>				<hr/>	<hr/>
	<hr/>				<hr/>	<hr/>
	<hr/>				<hr/>	<hr/>
	End of online operation cover to base plate inserts installation					

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																						
		6. MOD NO.																							
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION																					
				22. TECH	23. QA/DV																				
21.	INSTALLATION OF BASE PLATE TO USS SIMULATOR																								
21.1	Prepare the BASE PLATE for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																								
21.2	Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																								
21.3	Perform a visual inspection of the USS SIMULATOR check the cleanliness of all the inserts to be used. If necessary clean them with Isopropyl Alcohol																								
21.4	Weight all the hardware to be installed, including fasteners. Record the weight																								
	<table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>			ITEM	WEIGHT																				
ITEM	WEIGHT																								
	SCALE																								
21.5	PN _____ M# _____ Cal Date_____																								

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20. OPER
SEQ. NO.21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

22. TECH

23. QA/DV

21.6 WARNING: TTCB installation reference drawings are as indicated at the start of this ATS.

Verify before use the availability of the approved drawing revision

21.6.1 Check the bill of material in the assembly drawing.

21.6.2 **Only when indicated in drawing** apply a thin layer of Koropron primer in between washers and base plate and or component.

Koropron primer - PN _____ Lot# _____ Exp. Date _____

21.6.3 Install the indicated components as shown in the figure below.

Base Plate Installation (ET5998-06-3)

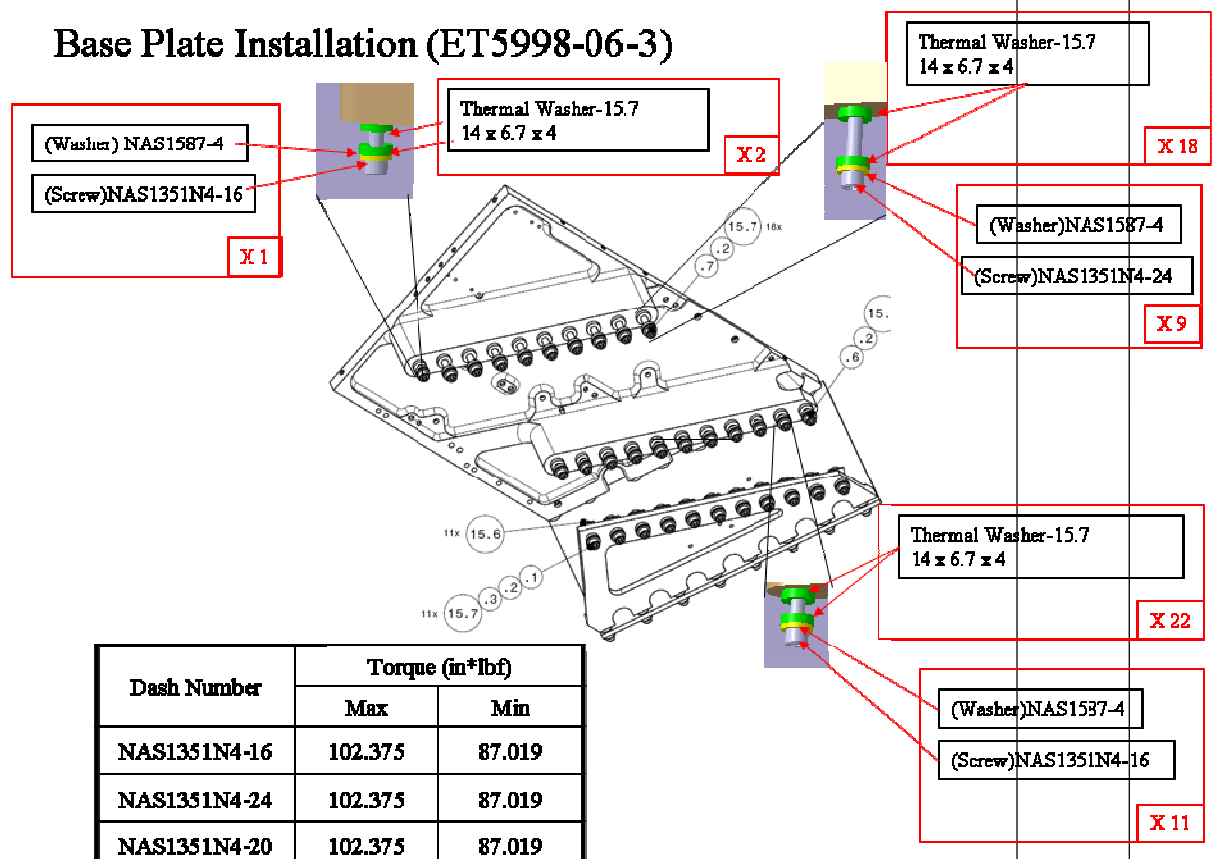


Figure 4: Connection base plate to USS simulator

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SEQ. NO.

21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

22. TECH

23. QA/DV

21.6.4 Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).

Braycote Grease - PN _____ Lot# _____ Exp. Date _____

21.7	Install the fasteners as per figure 4 and record fasteners lot number (write by hand)
------	---

USE INSTALLATION BOLTS NOT FLIGHT BOLTS AT AIDC

Bolt/washer/nut and number	NAS number	LOT
----------------------------	------------	-----

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

_____ LOT# _____

21.8	Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table.
------	--

Dash Number	Torque (in*lb ^f)	
	Max	Min
NAS1351N4-16	102.375	87.019
NAS1351N4-24	102.375	87.019
NAS1351N4-20	102.375	87.019

21.9 Check this value with the table at the end of this ATS.

Locking torque shall be in between **3.5-30 inch*lbf (size 0.250)**.

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ATS 090127-1-R0

6. MOD NO.

20. OPER
SEQ. NO.21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

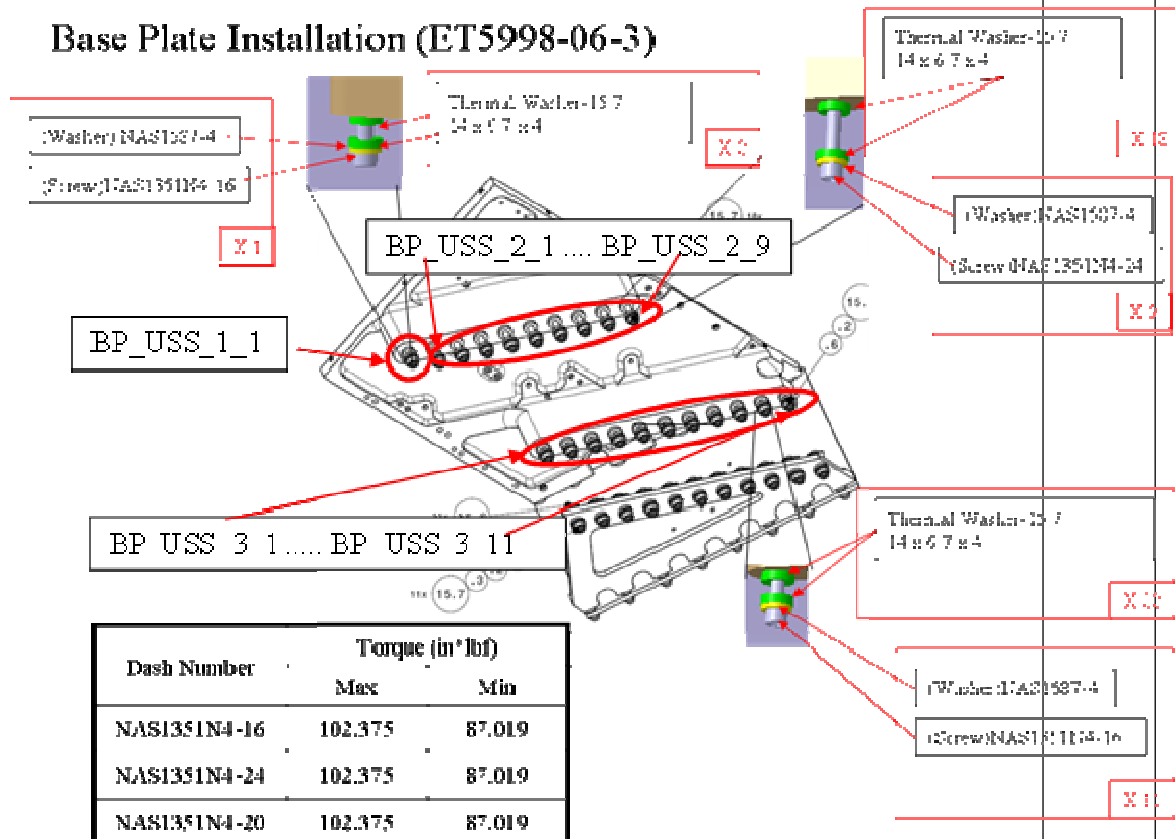
22. TECH

23. QA/DV

21.10

Check this value with Table 1 at the start of this ATS.
Final torque shall be the seating torque ABOVE LOCKING TORQUE.
5% precision on torque.

Base Plate Installation (ET5998-06-3)



Torque Wrench- Locking Torque (locking is the same as running torque)

PN _____ M# _____ Cal Due Date _____

Torque Wrench- Final Torque

PN _____ M# _____ Cal Due Date _____

Bolt indication (see figure above) Locking Torque Final Torque

_____	_____	_____
_____	_____	_____
_____	_____	_____

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CONTINUATION PAGE

4. ATS NO.

ATS 090127-1-R0

6. MOD NO.

20. OPER
SEQ. NO.

21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

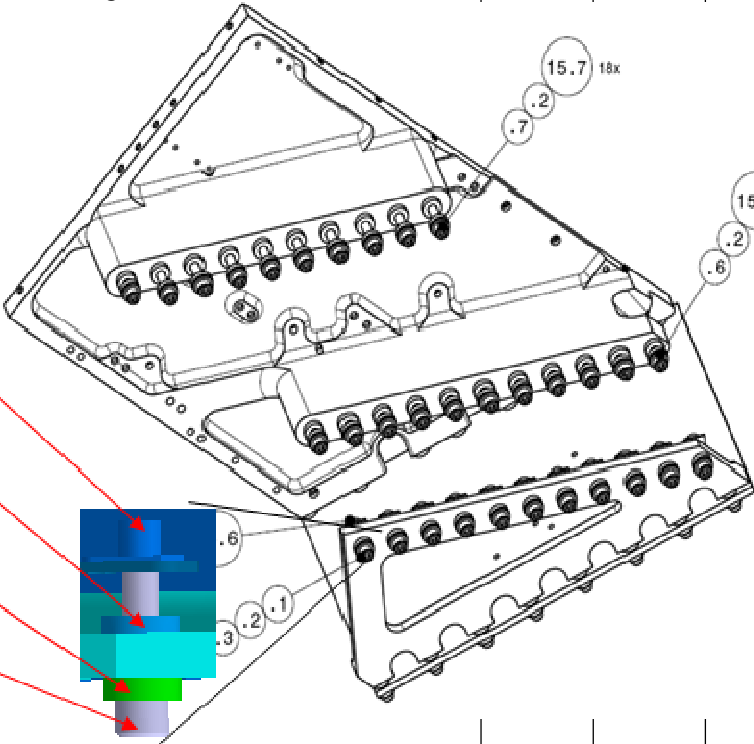
22. TECH

23. QA/DV

Bolt indication (see figure above)	Locking Torque	Final Torque
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	100	100
15	100	100
16	100	100
17	100	100
18	100	100
19	100	100
20	100	100
21	100	100
22	100	100
23	100	100
24	100	100
25	100	100
26	100	100
27	100	100
28	100	100
29	100	100
30	100	100
31	100	100
32	100	100
33	100	100
34	100	100
35	100	100
36	100	100
37	100	100
38	100	100
39	100	100
40	100	100
41	100	100
42	100	100
43	100	100
44	100	100
45	100	100
46	100	100
47	100	100
48	100	100
49	100	100
50	100	100
51	100	100
52	100	100
53	100	100
54	100	100
55	100	100
56	100	100
57	100	100
58	100	100
59	100	100
60	100	100
61	100	100
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65	100	100
66	100	100
67	100	100
68	100	100
69	100	100
70	100	100
71	100	100
72	100	100
73	100	100
74	100	100
75	100	100
76	100	100
77	100	100
78	100	100
79	100	100
80	100	100
81	100	100
82	100	100
83	100	100
84	100	100
85	100	100
86	100	100
87	100	100
88	100	100
89	100	100
90	100	100
91	100	100
92	100	100
93	100	100
94	100	100
95	100	100
96	100	100
97	100	100
98	100	100
99	100	100
100	100	100

21.11	End of online operation base plate to USS
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		5. Page 101 of 116																					
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																				
		6. MOD NO.																					
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																					
		22. TECH	23. QA/DV																				
22.	<p>INSTALLATION OF SIDE PLATE TO USS SIMULATOR</p> <p>22.1 Prepare the SIDE PLATE for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel</p> <p>22.2 Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel</p> <p>22.3 Perform a visual inspection of the USS SIMULATOR check the cleanliness of all the inserts to be used. If necessary clean them with Isopropyl Alcohol</p> <p>22.4 Weight all the hardware to be installed, including fasteners. Record the weight</p> <table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table> <p>SCALE</p> <p>22.5 PN _____ M# _____ Cal Date_____</p> <p>22.6 WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision</p>	ITEM	WEIGHT																				
ITEM	WEIGHT																						

		5. Page 102 of 116	
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
22.6.1	Check the bill of material in the assembly drawing.		
22.6.2	<div>Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component.</div> <div>Koropron primer - PN _____ Lot# _____ Exp. Date _____</div>		
22.6.3	Install the indicated components as shown in the figure below. <div><div><div>(Nut)NAS1789C4M</div><div>Thermal Washer -15.6 14 x 6.7 x 3</div><div>Thermal Washer -15.7 14 x 6.7 x 4</div><div>(Screw)NAS1351N4-20</div><div>X 11</div></div></div>		
	<div>Figure 4: Connection side plate to USS simulator</div>		
22.6.4	<div>Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).</div> <div>Braycote Grease - PN _____ Lot# _____ Exp. Date _____</div>		

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4. ATS NO.

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20. OPER
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21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

22. TECH

23. QA/DV

22.7

Install the fasteners as per figure 4 and record fasteners lot number (write by hand)

USE INSTALLATION BOLTS NOT FLIGHT BOLTS AT AIDC

Bolt/washer/nut and number	NAS number	LOT
----------------------------	------------	-----

_____ LOT# _____

LOT#

LOT#

LOT#

LOT#

LOT#

LOT#

_____ LOT# _____

LOT#	
------	--

22.8

Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table.

Dash Number	Torque (in*lb)	
	Max	Min
NAS1351N4-20	102.375	87.019

22.9

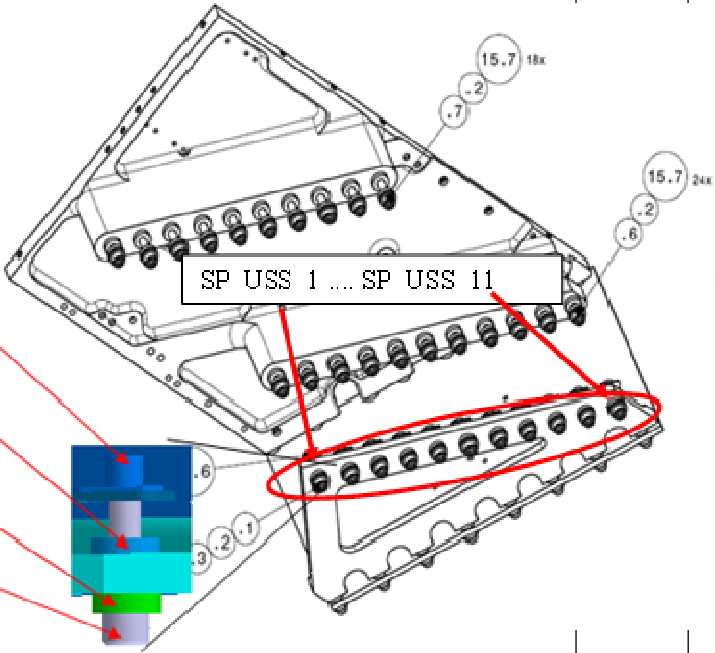
Check this value with the table at the end of this ATS.

Locking torque shall be in between **3.5-30 inch*lb (size 0.250)**.

22.10

Check this value with Table 1 at the start of this ATS.

Final torque shall be the seating torque ABOVE LOCKING TORQUE.

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																		
		6. MOD NO.																			
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																			
		22. TECH	23. QA/DV																		
	<p>5% precision on torque.</p> <div><div><div>(Nut)NAS1789C4M</div><div>Thermal Washer -15.6 14 x 6 7 x 3</div><div>Thermal Washer -15.7 14 x 6 7 x 4</div><div>(Screw)NAS1351N4-20</div><div>X 11</div></div></div> <p>Torque Wrench- Locking Torque (locking is the same as running torque)</p> <p>PN _____ M# _____ Cal Due Date _____</p> <p>Torque Wrench- Final Torque</p> <p>PN _____ M# _____ Cal Due Date _____</p> <table><thead><tr><th>Bolt indication (see figure above)</th><th>Locking Torque</th><th>Final Torque</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table>	Bolt indication (see figure above)	Locking Torque	Final Torque	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____		
Bolt indication (see figure above)	Locking Torque	Final Torque																			
_____	_____	_____																			
_____	_____	_____																			
_____	_____	_____																			
_____	_____	_____																			
_____	_____	_____																			

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4. ATS NO.

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20. OPER
SEQ. NO.

21. OPERATIONS
(Print, Type, or Write Legibly)

VERIFICATION

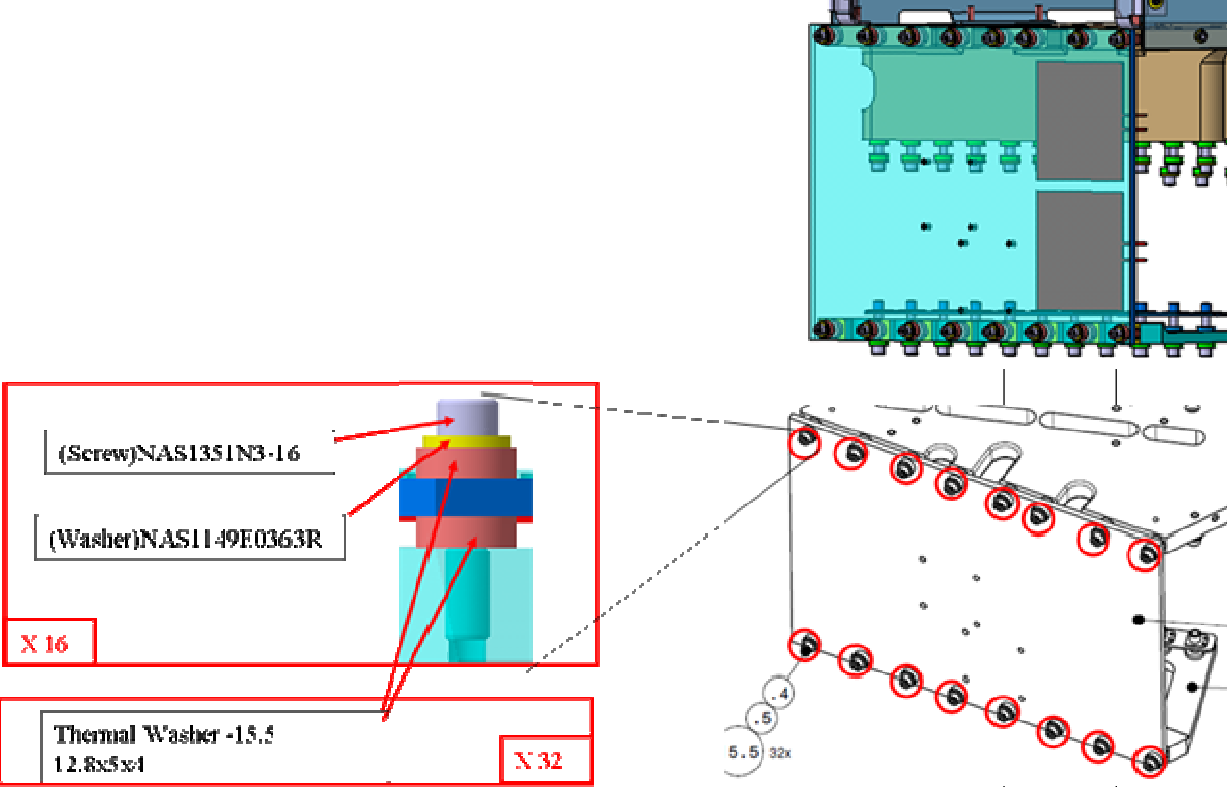
22. TECH

23. QA/DV

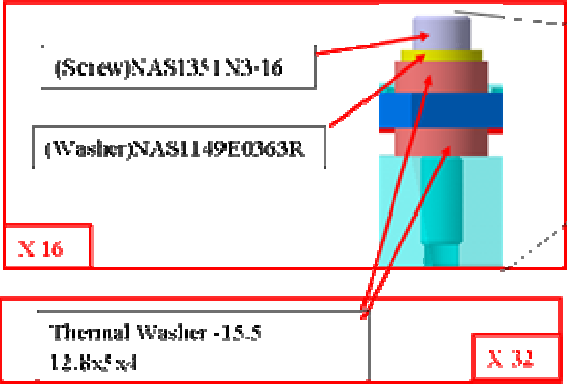
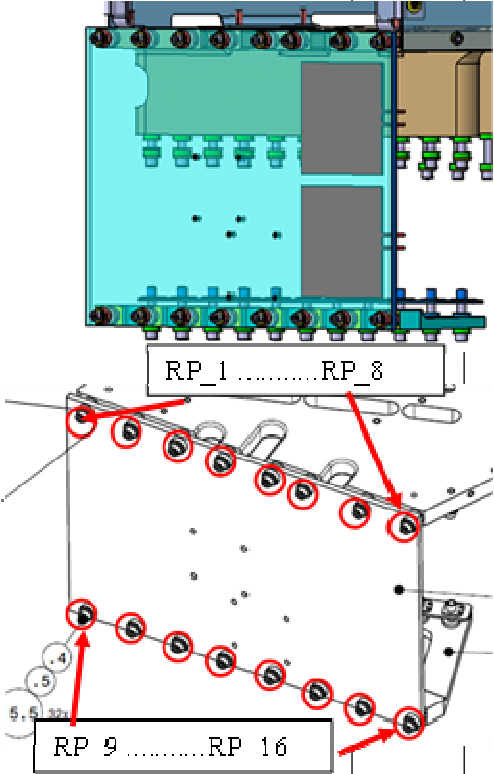
Bolt indication (see figure above)	Locking Torque	Final Torque
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End of online operation side plate to USS

5. Page 106 of 116																									
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0																					
			6. MOD NO.																						
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION																					
				22. TECH	23. QA/DV																				
23.	INSTALLATION OF DUMMY START-UP RADIATOR TO USS SIMULATOR																								
23.1	Prepare the DUMMY START-UP RADIATOR PLATE for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																								
23.2	Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																								
23.3	Perform a visual inspection of the BASE PLATE AND SIDE PLATE INSERTS check the cleanliness of all the inserts to be used. If necessary clean them with Isopropyl Alcohol																								
23.4	Weight all the hardware to be installed, including fasteners. Record the weight																								
	<table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>			ITEM	WEIGHT																				
ITEM	WEIGHT																								
23.5	SCALE PN _____ M# _____ Cal Date_____																								

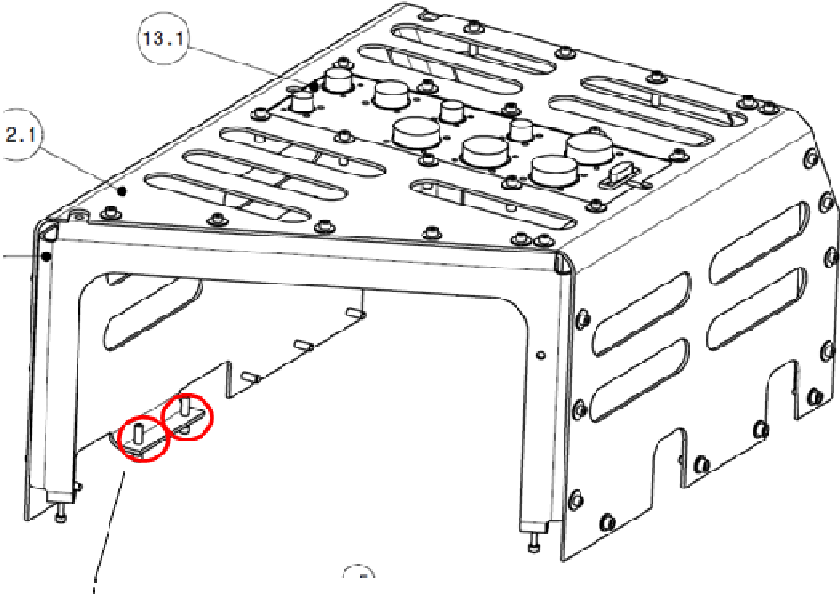
		5. Page 107 of 116	
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
23.6	WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision		
23.6.1	Check the bill of material in the assembly drawing.		
23.6.2	<div>Only when indicated in drawing</div> apply a thin layer of Koropron primer in between washers and base plate and or component. Koropron primer - PN _____ Lot# _____ Exp. Date _____		
23.6.3	Install the indicated components as shown in the figure below. <div></div>		
	<p>Figure 4: Connection radiator plate to base plate and side plate inserts TAKE NOTICE THE DUMMY RADIATOR IS NOT SHOWN IN THIS PICTURE. USE HOWEVER THE SAME BOLT NUMBERING</p>		
23.6.4	Apply a thin layer of <div>Grease, Braycote 601EF (C1)</div> , to the threads of each bolt prior the installation (as reported on the assembly drawings). Braycote Grease - PN _____ Lot# _____ Exp. Date _____		

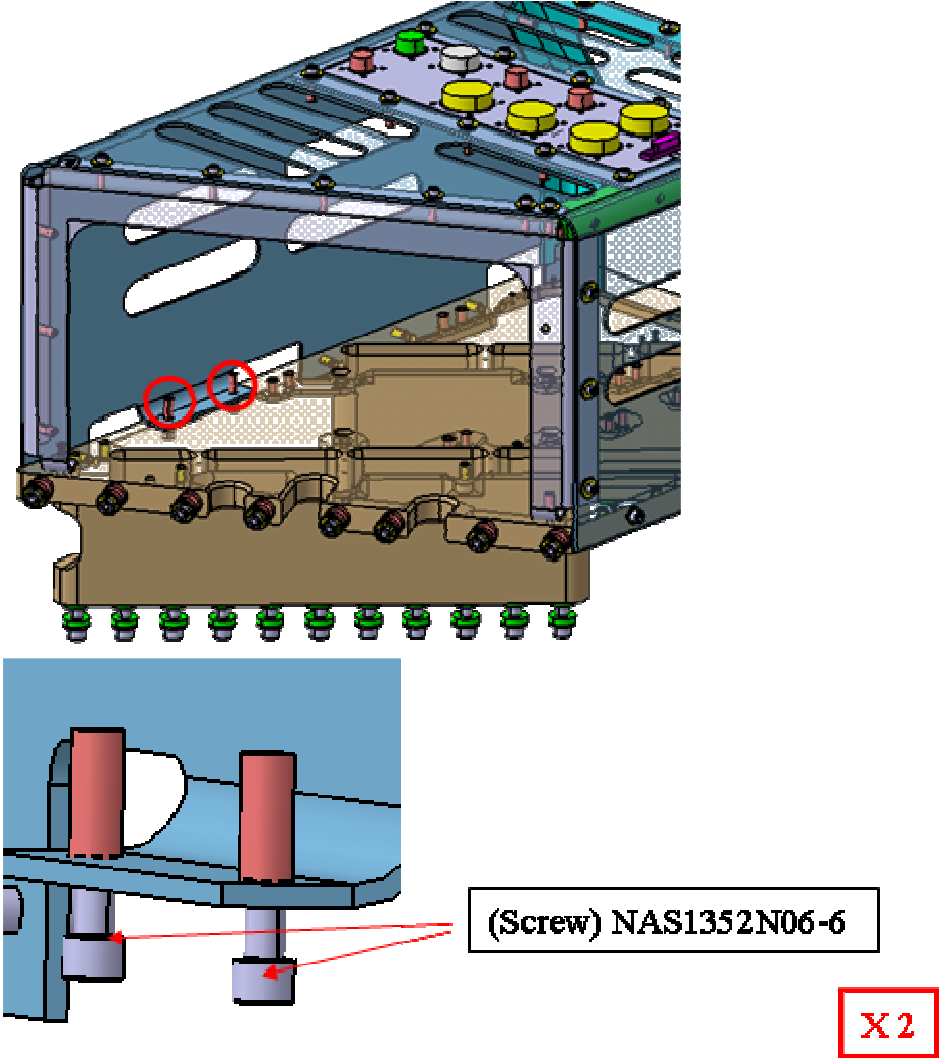
5. Page 108 of 116													
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0										
		6. MOD NO.											
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION									
				22. TECH	23. QA/DV								
23.7	Install the fasteners as per figure 4 and record fasteners lot number (write by hand) USE INSTALLATION BOLTS NOT FLIGHT BOLTS AT AIDC Bolt/washer/nut and number NAS number LOT _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ _____ LOT# _____ 23.8 Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table. <table border="1"><thead><tr><th rowspan="2">Dash Number</th><th colspan="2">Torque (in*lb^f)</th></tr><tr><th>Max</th><th>Min</th></tr></thead><tbody><tr><td>Screw NAS1351N3-16</td><td>42.237</td><td>35.901</td></tr></tbody></table> 23.9 Check this value with the table at the end of this ATS. Locking torque shall be in between 2.0-18 inch*lb ^f (size 0.190). 23.10 Check this value with Table 1 at the start of this ATS. Final torque shall be the seating torque ABOVE LOCKING TORQUE.			Dash Number	Torque (in*lb ^f)		Max	Min	Screw NAS1351N3-16	42.237	35.901		
Dash Number	Torque (in*lb ^f)												
	Max	Min											
Screw NAS1351N3-16	42.237	35.901											

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																		
		6. MOD NO.																			
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)		VERIFICATION																		
			22. TECH																		
			23. QA/DV																		
	5% precision on torque.																				
	<div><div><div><div>(Screw)NAS1351N3-16</div><div>(Washer)NAS1149E0363R</div><div>X 16</div></div><div><div>Thermal Washer -15.5</div><div>12.8x4</div><div>X 32</div></div></div><div></div><div></div></div>																				
Torque Wrench- Locking Torque (locking is the same as running torque)																					
PN _____ M# _____ Cal Due Date _____																					
Torque Wrench- Final Torque																					
PN _____ M# _____ Cal Due Date _____																					
<table><thead><tr><th>Bolt indication (see figure above)</th><th>Locking Torque</th><th>Final Torque</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table>				Bolt indication (see figure above)	Locking Torque	Final Torque	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
Bolt indication (see figure above)	Locking Torque	Final Torque																			
_____	_____	_____																			
_____	_____	_____																			
_____	_____	_____																			
_____	_____	_____																			
_____	_____	_____																			

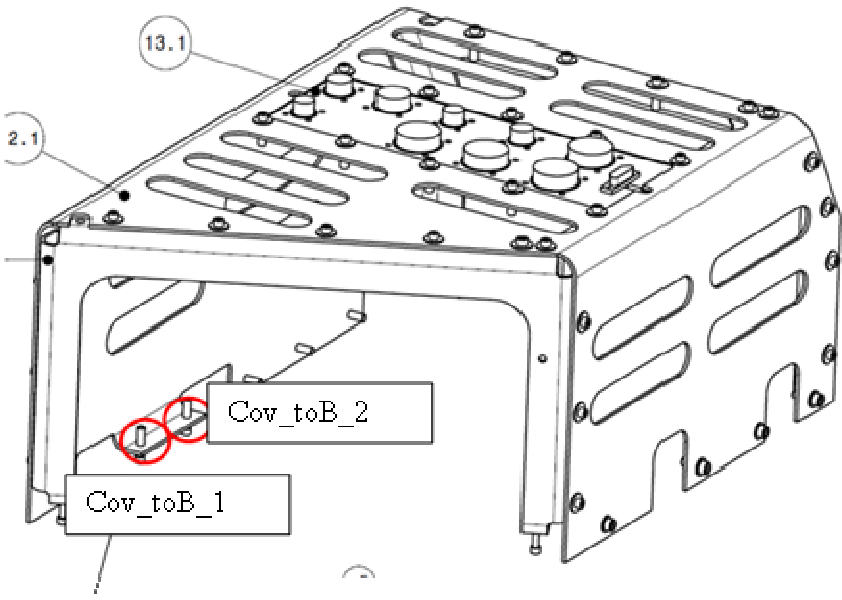
5. Page 110 of 116						
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE			4. ATS NO.	ATS 090127-1-R0		
			6. MOD NO.			
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)				VERIFICATION	
					22. TECH	23. QA/DV
	Bolt indication (see figure above)		Locking Torque	Final Torque		
	<hr/>		<hr/>	<hr/>		
	<hr/>		<hr/>	<hr/>		
	<hr/>		<hr/>	<hr/>		
	<hr/>		<hr/>	<hr/>		
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	<hr/>		<hr/>	<hr/>		
End of online operation dummy radiator plate installation						

5. Page 111 of 116																									
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0																						
		6. MOD NO.																							
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION																					
				22. TECH	23. QA/DV																				
24.	INSTALLATION OF Cover to Base plate																								
24.1	Prepare the Cover for installation. Perform a visual inspection of the parts to be installed; clean the parts to be installed with Isopropyl Alcohol and let the parts to be installed dry on the clean towel																								
24.2	Prepare screws and washer to be used for the part installation. Perform a screws and washer visual inspection; clean screws and washers in an Isopropyl Alcohol bath and let screws and washers dry on a clean towel																								
24.3	Perform a visual inspection of the COVER check the cleanliness of all the RIVNUTS. If necessary clean them with Isopropyl Alcohol																								
24.4	Weight all the hardware to be installed, including fasteners. Record the weight																								
	<table><tr><th>ITEM</th><th>WEIGHT</th></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>			ITEM	WEIGHT																				
ITEM	WEIGHT																								
	SCALE																								
24.5	PN _____ M# _____ Cal Date_____																								

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0
		6. MOD NO.	
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION	
		22. TECH	23. QA/DV
24.6	<p>WARNING: TTCB installation reference drawings are as indicated at the start of this ATS. Verify before use the availability of the approved drawing revision</p>		
24.6.1	Check the bill of material in the assembly drawing.		
24.6.2	<p>Only when indicated in drawing apply a thin layer of Koropron primer in between washers and base plate and or component.</p> <p>Koropron primer - PN _____ Lot# _____ Exp. Date _____</p>		
24.6.3	<p>Install the indicated components as shown in the figure below.</p> 		

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0						
		6. MOD NO.							
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION							
		22. TECH	23. QA/DV						
	<div></div> <p><i>Figure 4: Connection of cover to base plate</i></p> <p>24.6.4 Apply a thin layer of Grease, Braycote 601EF (C1), to the threads of each bolt prior the installation (as reported on the assembly drawings).</p> <p>Braycote Grease - PN _____ Lot# _____ Exp. Date _____</p> <p>24.7 Install the fasteners as per figure 4 and record fasteners lot number (write by hand)</p> <table><tr><td>Bolt/washer/nut and number</td><td>NAS number</td><td>LOT</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></table> <p>_____ LOT# _____</p>	Bolt/washer/nut and number	NAS number	LOT	_____	_____	_____		
Bolt/washer/nut and number	NAS number	LOT							
_____	_____	_____							

5. Page 114 of 116													
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0										
		6. MOD NO.											
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)			VERIFICATION									
				22. TECH	23. QA/DV								
			LOT#										
			LOT#										
			LOT#										
			LOT#										
			LOT#										
			LOT#										
			LOT#										
			LOT#										
			LOT#										
24.8	Torque the fasteners installed in the former step to the final torque value. Seating torque values are shown in below table.												
	<table><tr><th rowspan="2">Dash Number</th><th colspan="2">Torque (in*lbf)</th></tr><tr><th>Max</th><th>Min</th></tr><tr><td>Screw NAS1352N06-6</td><td>13.861</td><td>11.782</td></tr></table>					Dash Number	Torque (in*lbf)		Max	Min	Screw NAS1352N06-6	13.861	11.782
Dash Number	Torque (in*lbf)												
	Max	Min											
Screw NAS1352N06-6	13.861	11.782											
24.9	Check this value with the table at the end of this ATS.												
	Locking torque shall be in between 1– 10 inch*lbf (size 0.138).												
24.10	Check this value with Table 1 at the start of this ATS. Final torque shall be the seating torque ABOVE LOCKING TORQUE. 5% precision on torque.												

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AMS-02 TASK SHEET (ATS) CONTINUATION PAGE		4. ATS NO.	ATS 090127-1-R0															
		6. MOD NO.																
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)	VERIFICATION																
		22. TECH	23. QA/DV															
	<div></div> <p>Torque Wrench- Locking Torque (locking is the same as running torque)</p> <p>PN _____ M# _____ Cal Due Date_____</p> <p>Torque Wrench- Final Torque</p> <p>PN _____ M# _____ Cal Due Date_____</p> <table><thead><tr><th>Bolt indication (see figure above)</th><th>Locking Torque</th><th>Final Torque</th></tr></thead><tbody><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table>	Bolt indication (see figure above)	Locking Torque	Final Torque	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____		
Bolt indication (see figure above)	Locking Torque	Final Torque																
_____	_____	_____																
_____	_____	_____																
_____	_____	_____																
_____	_____	_____																
24.11	End of online operation cover to base plate rivnut																	

5. Page 116 of 116									
AMS-02 TASK SHEET (ATS) CONTINUATION PAGE				4. ATS NO.		ATS 090127-1-R0			
				6. MOD NO.					
20. OPER SEQ. NO.	21. OPERATIONS (Print, Type, or Write Legibly)					VERIFICATION			
						22. TECH		23. QA/DV	
25. Appendix 1: Seating Torque Values (2009_01_09)									
Max and Min torque summary of TTCS Parts issue 20090109									
Joints		Bolt		Insert/Nut		Washer		Torque(in*lb)	
		Dash Number	Number	Dash Number	Number	Dash Number	Number	Max	Min
TRD_Brackets_TTCB_Shared		NAS1351N4-24	9	MS21209 F4-15	9	NAS1587-4	9	102.375	87.019
Base plate &USS		NAS1351N4-16	12	MS21209F4-15	12	NAS1587-4	12	102.375	87.019
Side plate &USS		NAS1351N4-20	11	NAS1789C4M	11	no	11	102.375	87.019
Start up radiator &base/sideplate		NAS1351N3-16	16	MS21209F1-25	16	NAS1149EO363R	16	42.237	35.901
cover &base		NAS1352N08-8	10	MS21209C0820	10	NAS1149EN832R	10	24.944	21.203
		NAS1352N06-6	2	NAS1330-06-106	2	no	0	13.861	11.782
Accumulator bracket &base plate		NAS1351N3-16	8	MS21209F1-15	8	NAS1149EO363R	8	42.237	35.901
Pump Bracket &start up radiator		NAS1352N06-10	8	NAS1291C06M	8	NAS1149EN532R	8	13.861	11.782
Aps/Dps &Base plate		NAS1352N08-14	8	MS21209C0820	8	NAS1149EN832R	8	24.944	21.203
HX& Base plate		NAS1351N3-16	8	MS21209 F1-15	8	NAS 620 10 LC	8	42.237	35.901
Cold orbit heater &base plate		NAS1352N08-10	4	MS21209C0820	4	NAS1149EN832R	4	24.944	21.203
Controller &base plate		NAS1351N3-10	6	MS124695 10-32X1.5dia	6	no	0	42.237	35.901
Cover&CoverRibs		NAS1352N06-6	25	NAS1330-06-106	25	NAS1149EN532R	25	13.861	11.782
Cover Rib&Baseplate		NAS1352N06-12	2	NAS1330-06-106	2	no	0	13.861	11.782
Preheater&Baseplate		NAS1352N04-LB-6	8	no	0	no	0	7.459	6.34
ConnectorsPlate&Cover		NAS1352N06-6	10	NAS1330-06-106	10	NAS1149EN532R	10	13.861	11.782
PressSensors&Cover		NAS1352N06-8	8	MS21209C0620	8	no	0	13.861	11.782
PipeClamp&BasePlate		NAS1352N08-8	4	MS21209C0820	4	no	0	24.944	21.203
PipeClamp&PipeClamp		NAS1352N06-6	8	MS21209C0610	8	no	0	13.861	11.782
ClampBracker&Collar		NAS1351N08-LB14	7	no	0	NAS1149EN832R	7	26.863	22.834
Pipe-Fix&Clamp		NAS1351N06-10	8	MS21209F0625	8	NAS1149EN532R	8	15.662	13.312
Press&Saddle		NAS1351N08-12	8	MS21209F0820	8	NAS1149EN832R	8	26.863	22.834
Pipe clamp and cover		NAS1352N06-12	2	NAS1330-06-106	2	no	0	13.861	11.782